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SUPPLY TRAINING

MANAGEMENT INFORMATION SYSTEMS

THESIS

Herbert Phillips, Jr.
Captain, USAF

AFIT/GLM/LSM/89S-46

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Wright-Patterson Air Force Base, Ohio

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AFIT/GLM/LSM/89S-46

SUPPLY TRAINING MANAGEMENT INFORMATION SYSTEMS

THESIS

Presented to the Faculty of the School

of Systems and Logistics

of the Air Force Institute of Technology

Air University

In Partial Fulfillment of the

Requirements for the Degree of

Master of Science in Logistics Management

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September 1989

Preface

In many areas of the Air Force, personal computers are purchased and sit unused, or used inefficiently. One area of concern is in the Base Supply Training Section. This section, commonly undermanned, is responsible for performing and tracking large quantities of training. With the common availability of a personal computer, this section could benefit from the use of a training management information system. One purpose of this research was to find such a system. A second objective was, if no satisfactory system could be found, to design a system that would meet the needs of the supply training monitors. The result of the first objective were dismal, but not surprising. The results of the second objective was very successful and consequently provided the supply community with a useable training management system.

Throughout my research effort, several individuals provided me with the moral support and direction necessary to finish. Lt Colonel Bruce Christensen, my advisor, without whom this thesis could not have been possible. Many thanks, sir. I would also like to thank Mr. Mitchell Rogers and Ms. Jody Taylor, both of whom provided several ideas to enhance my final system design. Last, but certainly not least, I wish to thank my wife Peggy, and my kids, Mandy and Trey, for their complete understanding and support through some trying times. I'm back guys.

Herbert Phillips, Jr.

ii

Table of Contents

List of Figures

List of Tables

vi

AFIT/GLM/LSM/89S-46

Abstract

Supply squadron training monitors have before them an enormous task; to monitor, maintain, and schedule large numbers of base and squadron personnel for many different training requirements. Included in these training requirements are customer block training, ancillary training, on-the-job training, mobility training, and various other unit-level miscellaneous training areas. The old method of managing these requirements via cards and manually generated rosters has quickly become obsolete.

One purpose of this study was to search for a training management information system that would alleviate the time-consuming tasks associated with training management. A second objective was, if no satisfactory system could be found, to design a system to meet the needs of the supply training monitors.

Extensive interviews were performed with supply training monitors and MAJCOM training managers in search of a system already in existence and gathering information for the possible development of such a system. Since no satisfactory system could be found, a supply training management system was designed and programmed in dBase III Plus. The resulting system was successfully evaluated and should provide the supply community with a usable training management tool.

SUPPLY TRAINING MANAGEMENT INFORMATION SYSTEMS

I. Introduction

General Issue

Supply squadron training monitors have before them an enormous task: to monitor, maintain, and schedule large numbers of base and squadron personnel for many different training requirements. According to Air Force Manual (AFM) 67-1, Volume II, Part Two, Standard Base Supply System, the training section, LGSPT, is responsible for scheduling, training, and monitoring all Base Supply customer training, all training for supply computer operations personnel, supply training to supply personnel assigned outside the supply complex, and training for supply inspection personnel. (11:2.53-2.55). In addition to these responsibilities, the training section is responsible for managing and monitoring the supply squadron on-the-job (OJT) training program and usually the squadron ancillary training program (11:2.53). For a squadron of over 200 people, and a base population over 1000, the job of scheduling, training, and monitoring is a difficult and time-consuming undertaking. As more and more training is required of Air Force personnel, the old method of pencil and paper tracking has quickly become obsolete. Although squadrons are allowed

1

to use computer-based programs to track and monitor
personnel training, there exists no standardized, automated
method to perform the multitude of tasks required of supply
training monitors (9:5; 1:1). To alleviate some of the
time-consuming aspects of the training monitor's duties, the
Air Force Logistics Management Center (AFLMC) has begun
searching for new methods to improve scheduling and tracking
capability at squadron level (2). The AFLMC is hoping to
find an automated system, applicable to the training
section, that will efficiently satisfy the needs of the
supply training monitors.

The difficult task facing supply training monitors can
best be summed in the problem statement.

Research Problem

Supply squadron training monitors currently have no
standardized, efficient method of tracking and scheduling
the large array of training requirements for squadron and
base personnel.

Before examining the specific objectives of this study,
it is important to have a common base of understanding.
This common base will be provided through several technical
definitions which will be used throughout this report.

Definition of Terms

1. Application programming -- the act of designing a
user-specific, application-specific program using the

computer language provided with certain computer software packages. The program developed is usually confined to operating within the software package environment.

2. Management Information System (MIS) -- a computer based system that transforms raw data into meaningful information, used by a manager as an aid in decision-making.

3. Menu-driven -- a phrase used to describe software packages that use a screen menu, or combination of screen menus, to aid the user in understanding the software and to facilitate successful operation.

4. Microcomputer -- any computer that is designed to be IBM$_R$ PC compatible and which uses Microsoft Disk Operating System (MSDOS$_R$).

5. Software Package -- a computer program designed with a specific operating purpose; e.g., statistics package, word processing package, database management package.

6. User-friendly -- a computer term used to describe a computer program ". . . with features that acknowledge human factors" (27:2). Programs considered user-friendly are easy to use, easy to learn, and prepared for user errors (27:2).

Research Justification

The justification for this particular research lies in the need for a computer automated system for supply training monitors. This system, whether it is already in existence in the commercial or government sector, or newly designed, should increase productivity and reduce the number of

man-hours spent on training management, as computer automation has in other fields (19:82). As the Air Force enters an era of tightened budgets and reduced manpower resources, any new method or new use of existing technology should be researched. Through working "smarter" and using technology to its utmost capability, the Air Force will continue to meet today's obstacles and the challenges of the future.

Research Objectives

The principle objective is to find currently available software packages, both government-owned and commercially-available, that will satisfy the needs of supply squadron training monitors. If no satisfactory software package exists, a secondary objective is to design and develop a microcomputer-based training management information system for supply squadron commanders and their training monitors. A properly developed, user-friendly, self-documenting system should increase productivity in the training section and provide for an automated retrieval and scheduling capability at squadron level (1:2).

Research Questions

In order to achieve the objectives, the following research questions must be answered.

1) What methods are currently being used by Air Force training monitors to track/schedule training requirements?

2) What software is currently available for training monitors to use?

   a) What software is currently available in the Air Force inventory?

   b) What software is currently available from the other military services?

   c) What software is available commercially to satisfy the needs of the training monitors?

3) What complaints and/or suggestions do users of currently available software have about their product?

4) Which training requirements would be applicable to a microcomputer-based tracking system?

   a) What kind of information do the training monitors want to extract from the database?

   b) What reports, currently required, do the monitors want the software to be able to produce?

5) If no satisfactory software currently exists, what kind of training management information system (MIS) could be developed from software, already in existence, to aid supply squadron training monitors in the accomplishment of their duties?

Scope of Research

This study will address the problem of automating the tasks associated with monitoring and tracking training requirements for a Continental United States (CONUS) Air Force supply squadron. In addition, since initial research

by the AFLMC has indicated that computer automation would prove to be the most efficient method, manual methods such as Gantt chart scheduling will not be addressed. This research will be limited to CONUS supply squadrons because of the widely varying training requirements between CONUS and overseas personnel. Last, the search for software and the development of a software package, if necessary, will be aimed exclusively at stand-alone, International Business Machines (IBM$_R$) compatible microcomputers, utilizing Microsoft Disk Operating Systems (MSDOS$_R$). This last limitation is necessary since this is the standard the Air Force supply community adheres to when purchasing microcomputers for the office environment and to ignore it could result in non-compatible software packages (3).

The literature review in the following chapter will set the groundwork for this research. A discussion of management information systems, database management systems, and the resulting increases in worker productivity from the implementation of this type of office automation system, will provide the necessary background for the evaluation and design, if required, of a supply training management information system.

II. Literature Review

In 1966, George R. Terry, Ph D. wrote, "Automation in the office is becoming commonplace and . . . advancing into a dominant position in performing office work" (30:v). Reading Terry's remark today seems like an extreme understatement of the obvious. In 1966, however, when an electronic computer filled a space the size of a room, Terry's statement was probably considered unimaginable by the majority of the business community. Today, with the numerous advances in the personal computer field, office automation is more than commonplace; it is necessary to remain competitive. Office automation is defined as the ". . . application of technology to tasks which were formerly people-intensive and . . . is a means of processing information in the fastest and most cost-effective manner" (13:5). Included in this definition are management information systems (MIS) and database management systems (DBMS). A review of the literature concerning each of these office automation systems and the potential applications and benefits of each will be provided. A major concern of many software and system users is the concept of user-friendliness. The way a computer package interfaces with its human operators sometimes determines the ultimate success or failure of many information systems. As such, a brief review of the literature concerning user-friendliness,

7

as it applies to DBM Systems and MI Systems, will also be presented.

The concepts, definitions, applications, and potential benefits of DBM Systems and MI Systems, as well as the notion of user-friendliness, will provide the background and knowledge necessary to evaluate potential supply training management application systems.

Management Information Systems

According to Henry Lucas, "The purpose of an information system is to provide and interpret data to aid in the decision-making process" (17:8). Likewise, James Senn wrote that a MIS provides ". . . information in report form on a regular basis to assist managers with decisions . . ." (26:17). These two descriptions indicate the importance of a MIS to today's managers. Throughout a single business day, managers at all levels are faced with many difficult decisions. A well-developed MIS helps the manager make well-informed decisions by harvesting the raw data involved and transforming it into meaningful information upon which operational, managerial control, and strategic planning decisions can be based (17:9). A supply training system should be a mixture of the short range operational control information system -- for daily tracking and scheduling, medium range determinations of potential class sizes, and possibly even provide a smoothing function, much the same way some manufacturing systems smooth product

demand so not to overload or under use production
facilities. Figure 1 provides a graphic overview of an
information system, with respect to the decisions it aids in
making. In addition to the possible smoothing function,
frequent reports provided to the squadron commander
indicating training status of squadron personnel will keep
the commander better informed of potential problem areas and
aid in the making of training-related decisions. This type
of benefit is all too common in the management literature of
today.

	MANAGEMENT INFORMATION SYSTEM		OPERATIONAL CONTROL INFORMATION SYSTEM
Decisions Supported	Strategic planning	Managerial control: financial, personnel	Operational control: daily operations
Information Charac-teristics	External environment Accuracy unimportant Summary information Periodic Long range Predictive	Internal records Accuracy vital Detailed information Frequent Medium range Control	Internal operations Accuracy vital Detailed information Real-time Short range Action
Information System	Collect and interpret data		
Data Base	Raw data		

Figure 1. An Information-System Framework
(Reprinted from 17:15)

In an effort at controlling the steep rise in medical costs, hospitals have begun implementing MI Systems ". . . to enhance management effectiveness" (16:25). Information systems abound in today's society. Hotels are using these systems to make and track room reservations, while the airlines use them for reservations and flight planning (26:4). In the military, maintenance activities use information management systems ". . . to gather and analyze data regarding system component failure rates . . ." (32:14-9). In addition, "[inventory] forecasting and financial [budget] management activities . . . are supported through . . . information management activities" (32:14-9). The Chicago Police Department uses information management systems to produce reports, crime summaries, and statistics which are ". . . used by district and area patrol supervisors to help in assigning policemen and cars to high crime areas" (17:22-23). The systems mentioned each contribute to higher productivity and more effective utilization of manpower in the operations they serve. The justification for and benefits of these MI Systems lie in their ability to increase the capabilities of the workplace without a resulting increase in personnel (19:82).

One of the basic components of an MIS is raw data. To handle this raw data, many MI Systems are using database management systems to organize and access the data needed. Tsichritzis, in his book on DBM Systems, indicated:

10

> Although a DBMS is by no means a necessity in an
> information system, it is becoming increasingly
> clear that a DBMS is required for effective data
> management in an information system environment.
> (31:25)

With this statement in mind, the following section presents
a brief look at DBM Systems in general, their applications,
and their benefits.

Database Management Systems

A database management system, simply put, is computer
software designed to create, store, update, and retrieve
data (14:187). Alfred Poor of PC Magazine wrote, "One of
the earliest reasons why people wanted personal computers
was to handle large quantities of similar data" (22:109).
This remains the primary reason today. When businesses
began using computer-oriented data managing systems, prior
to 1970, each application or request for specific
information had to rely on its own data files. What ensued
was duplication of similar data ". . . stored redundantly in
several locations" (4:4). If, for example, an employee's
address changed, the payroll data file, the personnel data
file, and any other data file that contained that particular
information had to be updated separately. It is apparent
that changes to the same information in several locations is
". . . wasteful of machine and human resources" and ". . .
difficult, if not impossible, to ensure that changes [are]
always entered consistently in all [data] files" (4:4).

From these and other problems, database management systems

emerged,

> . . . to facilitate data organization and
> access. They serve as an interface between the
> user and the physical copies of the data. Users
> specify what data they want and in what form.
> They do not need to specify where the data
> reside or how to get them. (31:29)

Figure 2 depicts the relationship between databases and the

database management system. A system of this sort, with the

relationships shown above, has many applications and

benefits. Libraries, for example, have welcomed the new

management tool by using it for circulation control and

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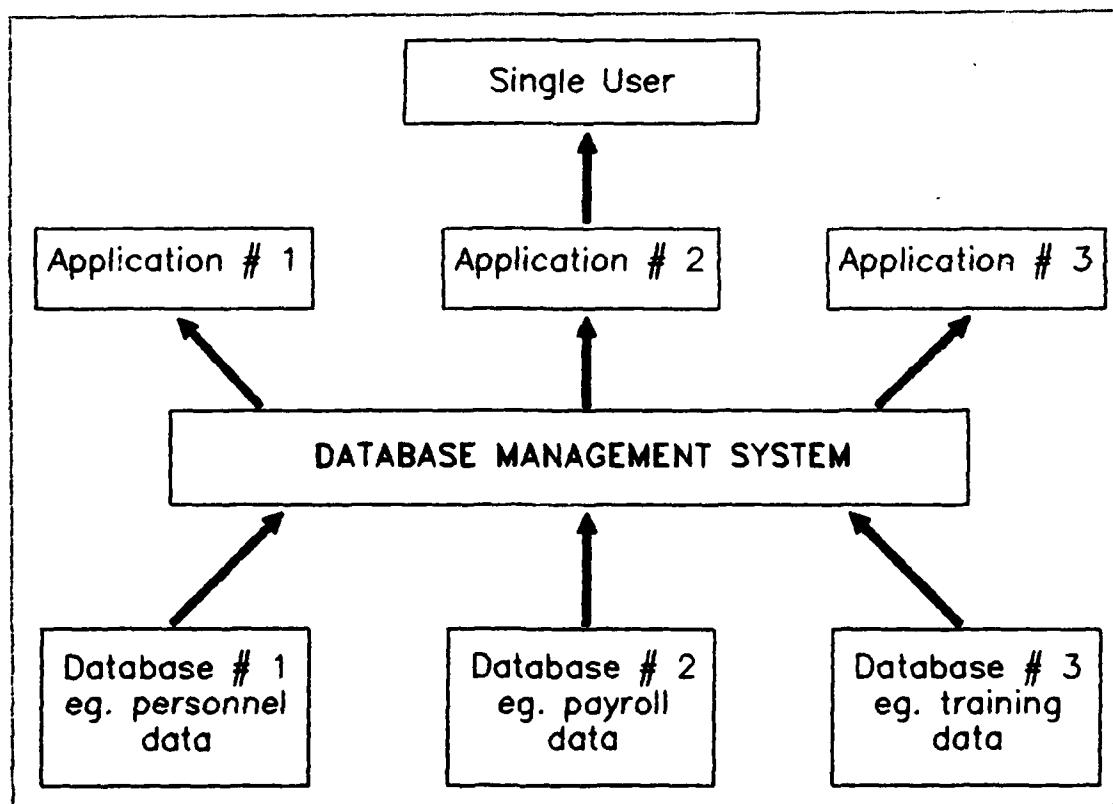
Figure 2.   DBMS Relationships
(Adapted from 31:25)

cataloguing (8:1). As previously mentioned, companies are using DBM Systems to manage their payroll records, personnel records, and other records such as inventory control and accounts receivable (4:4). The 3480th Supply Squadron, located at Goodfellow Air Force Base, Texas, uses a DBMS for personnel, physical fitness, and other data previously maintained in large card files. The automated system now provides much information, previously thought to be too difficult or time-consuming to obtain. The University of Toronto utilizes a large database information system to manage the majority of the university's data. Summary analyses and special reports provide administrators and faculty with much needed information year-round (31:7).

A supply training management system, using the data relationships described above, should also be capable of achieving similar benefits. Individual data files could be established containing personnel data, ancillary training data, on-the-job training data, and much other data from a wide variety of sources. Each of these data files could subsequently be linked via a DBMS. The DBMS, driven by specific application programs, could utilize the data from several of the databases to provide comprehensive, accurate, and timely information to the training monitor and squadron commander to aid in making decisions pertaining to training.

To evaluate MIS and DBMS packages, several criteria are recommended in the current literature. Power, flexibility,

and user-interface are some of the more important MIS and DBMS aspects to be considered. State-of-the-art technology, however, has made the distinction between packages, in the area of power and flexibility, quite difficult. Many designers have added features to their software to the point where only subtle differences exist (22:109). User-interface or user-friendliness remains an important criterion in evaluating and choosing a MIS/DBMS package (4:47). As such, the following section will address user-friendliness as it pertains to MIS/DBMS and discuss some of the more important aspects to consider.

User-Interface Considerations

The human-computer interface is very important when designing or evaluating a computer software package. Program control and documentation are two features to be considered (27:166,184). Program control is defined as ". . . the manner in which the operator interacts with the computer to get it to do something" (27:166). Menu-driven software control, in which the user chooses an action based on a pre-defined menu, is one of the more popular methods. Menus are easy to use and make ". . . little demand on human recall memory . . ." (27:172). Menu-driven programs, therefore, are well-suited to beginning users and users requiring only structured, pre-defined output (27:172). Since supply training monitors are not required to have computer experience, a menu-driven software package,

pre-configured with specific output stratifications, would be most helpful.

An equally important consideration in the selection of DBMS/MIS software is program documentation. The documentation can come in different forms such as user's guides, tutorials, and on-line help screens. Each has its own advantages and disadvantages, however, user's guides, tutorials, and on-line help screens ". . . should be considered complementary rather than competing alternatives" (27:193). In other words. each form of documentation serves a particular function in the user's learning process and should be present to achieve user-oriented, easy to learn computer software. Applying the above documentation criterion to a prospective supply training management system would entail having on-line help facilities to explain program use and possibly output stratification options. including a user's guide also explaining program use in more detail, and a step-by-step tutorial to help new users become proficient in each area of the software program.

Conclusion

As the use of management information systems and database management systems becomes more commonplace, it is imperative that managers understand their applications and benefits. An information system transforms raw data into meaningful information that can then be used by managers to make well-informed decisions. Implementation of these

systems usually results in productivity gains and increased capabilities. In the 3480th Supply Squadron, mentioned previously, to find out which of the squadron's 150 personnel were under the age of 21, for example, took a clerk several hours of searching through a cardfile to extract the information. Now with their current MIS, utilizing the relationship advantages of a DBMS, the same task takes only seconds. This example, though small scale in nature, indicates the immense benefits a MIS can provide.

Evaluating and selecting MIS/DBMS software is a difficult process. User-interface considerations are a major concern because, if the prospective users have difficulty using the software, they are less likely to realize maximum benefits. A menu-driven program, in addition to the existence of step-by-step tutorials, on-line help screens, and a detailed user's guide, helps to indoctrinate the novice user to the intricacies and capabilities of a software package.

Using the information gathered from the literature, a more knowledgeable search for a supply training management information system can now be performed.

III. Research Methodology

To answer and solve the research problem of locating an efficient, user-friendly training management software package, applicable to the needs of a base-level supply training section, the research questions mentioned previously must be answered. To answer these questions, several methods will be used.

Research Question # 1

To answer what methods supply training monitors are currently using, unstructured interviews with four supply training monitors, chosen at random from each of the following CONUS MAJCOMs, MAC, TAC, ATC, AFLC, AFSC and SAC, will be conducted. In addition, telephone interviews with Captain Jeff Bailey and Captain Steve Reynolds, members of the AFLMC supply staff, should provide the overall Air Force "big picture" view.

Research Question # 2

The answer to the second research question, what software is currently available for supply training monitors to use, will be provided through a combination of methods. Since Air Force training is divided into several areas (on-the-job, ancillary, and supply training), each with its own point of contact, unstructured telephone interviews will be conducted with various individuals. A summary of the

17

individuals to be contacted, their position, and the specific program they have responsibility for is listed in Table 1. In addition to the interviews listed in Table 1, a complete search of the Defense Technical Information Center (DTIC) database and the Dial-a-Log logistics software bulletin board will be performed. To find out what software the other services use, if any, unstructured telephone interviews with personnel at both the U.S. Army and U.S. Navy Training Centers will be performed. To find what training management software is available commercially, a current literature search, on this specific topic, will be-

Table 1.   Supply Training Points-of-Contact

Name	Office	Area
CMsgt Alvin LeBlanc	Training Management and Development Section, HQ AFMPC	Ancillary/ OJT Training
Mary Edmasten	Standard Systems Center, HQ SSC	Logistics Software
CMSgt Michael Drain	Supply Management and Procedures, HQ ATC	ATC Supply Training
MSgt Dave Reese	Supply Management and Procedures, HQ MAC	MAC Supply Training
TSgt Robert Bowman	Supply Procedures and Systems, HQ SAC	SAC Supply Training
George Grove	Directorate of Supply, HQ AFLC	AFLC Supply Training
Capt Graves	Supply Management and Procedures, HQ TAC	TAC Supply Training

conducted. The scope of the search will begin with the narrow topic of training management software, then broaden to training software, and then expand to the broad topic of database management software.

Research Question # 3

To determine what complaints and/or suggestions current users have about their product, telephone contact will be made with users of the products found in answer to Research Question # 2.

Research Question # 4

To answer which training requirements would be applicable to a microcomputer-based tracking system, unstructured telephone interviews will be performed with the functional training manager for each of the following programs: ancillary training, on-the-job training, and base supply customer training. In addition, the supply training monitors, previously mentioned under Research Question # 1 will be asked for their opinions as to which requirements would be feasible to track and what training-related reports are required of them.

Research Question # 5

The final research question, what kind of supply training management information system could be developed if no satisfactory package currently exists, will be answered by designing and developing a DBMS-based application

program. This system will then be partially field tested at the 2750th Logistics Squadron, Supply Training section, located at Wright-Patterson Air Force Base, Ohio. After changes, if necessary, are made, the MIS will be made available to the AFLMC for complete testing and evaluation prior to implementation.

Justification

The main method to be used to gather data in this research study is unstructured telephone interviews. It was decided this form of interview will provide more comprehensive answers to the questions presented. In addition, the questions themselves will not have to be limited to pre-designated forms, as in the case of written surveys. Sample questions that will serve as a guide are presented in Appendix A. The telephone will be used as the main source of communication and contact with prospective respondents mainly because of the unstructured questions to be asked and the prohibitive cost of traveling to the various locations mentioned above. The data gathered from the interviews will mainly be personal opinions of experts in the field of Air Force training. These opinions will provide a pool of information from which conclusions can be drawn.

IV. Findings and Discussion

Observing the methodology presented in the previous chapter, the following information was gathered to answer the research questions and satisfy the research objective.

Research Question # 1

What methods are currently being used by Air Force supply training monitors to track and schedule training requirements?

Of the supply training monitors interviewed, 75 percent indicated they were using a manual type tracking system. The specific manual systems varied from card files to log books. The other 25 percent stated they were currently using a computer based system. Specific systems found included: dBase III+, Word Perfect word processor, Enable, Condor III, and a user-developed package entitled, Base Supply Customer Training System. An evaluation of each system will be presented later.

Research Question # 2

What software is currently available for training monitors to use?

Telephone interviews with the persons responsible for each category of training (see Table 1) met with disappointingly negative results. In each case, the training managers, both Air Force and at the MAJCOM level,

did not have an automated program for their monitors to use.
Several did, however, refer to software programs released by
the AFLMC. The specific comments on the software will be
discussed in answer to Research Question #3.

Research Question # 2.a.

What software is currently available in the Air Force
inventory?

A thorough search of DTIC and Dial-a-Log was performed
and discovered two Air Force-owned software packages: PATS
and SMART, both developed at the AFLMC. In addition, during
the training monitor interviews, a user-developed software
package was found. Each is discussed below beginning with
PATS.

Personnel Automated Training Schedule Program (PATS).

The PATS program was developed at the AFLMC in February
1986. PATS is:

> . . . a computer program that runs on a
> Zenith Z-100 or Z-248 microcomputer. The program
> tracks and schedules any training requirements,
> appointments, etc., that recur on a regular
> calendar basis, or are one-time requirements.
> (20:Inside Cover)

The program was designed for Reserve military units to
". . . build a training schedule for their drill weekends,
when most of the training is done by part-time personnel"
(20:Inside Cover). In addition, active military units can
use the program ". . . to track and monitor their recurring
training requirements and to build a schedule for training"

22

(20:Inside Cover). The program has several features
including.

> . . . identification of current and overdue
> requirements for each individual, or workcenter;
> visibility over the number of [training] slots
> required for each course code during specified
> time frames; generation of training schedules by
> individual, workcenter, or entire unit; and
> generation of course rosters for each course
> scheduled. (20:i)

The program was specifically designed for Reserve aircraft
maintenance units and is available from MAJCOM training
managers (20:i).

Supply Mobility and Recurring Training (SMART). The
second package discovered was the Supply Mobility and
Recurring Training program. The SMART program was also
developed by the AFLMC in April 1987. The program is
basically a modification of the code used in the PATS
program (1:1). The SMART program is intended "for squadron
level supply managers/schedulers [and] . . . is a tool for
fast, accurate schedule development. . ." (27:5). However,
the program is limited in capability and lacks in the area
of user friendliness (21). The SMART program is
menu-driven; however, it uses codes to identify courses,
workcenters, and personnel (28:5). That means users will
have to learn the multitude of codes to efficiently use the
software. In February 1989, an error was discovered in the
SMART computer code that "caused the program to mix up
employee numbers" and a "fix" was distributed by the AFLMC
to correct the problem (23). The program has been

distributed to the MAJCOM training managers and is available on request.

Base Supply Customer Training System (BSCTS). The third package discovered is a dBase III application program written by Mr. Mitchell Rogers of the 63rd MAW Supply Training Section, Norton Air Force Base, California. In the words of the author, the program was "designed to save man-hours and keep better control of attendance records" (24:1). Features include an automated report facility that prints the annual training report required by AFR 50-1, Ancillary Training Program. In addition, the program gives the user the added capability to track training no-shows, and send no-show letters. Another useful feature is the menu option to print an attendance roster, prior to the actual class, for the attendees to initial. The program is menu-driven and has a user's guide that shows examples of and some instructions for the various screens users will encounter. One limiting factor of the program is that the software creates a separate data record each time a person is trained in a particular course which duplicates data and enlarges the databases unnecessarily. Also, the user friendliness of the program, in the area of on-line help facilities and screen presentation, could be enhanced with minor modifications. Considering each of the above comments, the program is an excellent automated system for

tracking Base Supply Customer Training and the author should be commended for his initiative.

Research Question # 2.b.

What software is currently available from the other military services?

Interviews were performed with personnel involved in U.S. Army and U.S. Navy training. The Army indicated that all training is tracked at company level, where computers are not available. Given the nonexistence of computers, all Army training is maintained manually on cards (5). The Navy provided a similar response indicating that there is no standard Navy-wide computer package available and that most Navy training is performed at division level, where it is tracked via cards or notebooks (6; 18).

Research Question # 2.c.

What software is available commercially to satisfy the needs of the training monitors?

A review of the literature for commercially-available "training management-specific" software was performed without success. However, several commercial database management packages lend themselves to specific application programs, such as training management (22:109). A database management system, by definition, is software designed to create, store, update, and retrieve data (14:18). This data can be in the form of employee identification information,

training dates, etc. Since specific training management software packages could not be found, a review of programmable database management packages was performed.

DataEase Version 2.5. DataEase, Version 2.5, is distributed by Software Solutions, Inc. of Trumbull, Connecticut. For a $600 list price, the buyer receives a powerful, menu-driven, database management system that is easy to install and works well on either hard or floppy disk systems. DataEase, however, is somewhat light in the documentation aspect. According to PC Magazine's Alfred Poor, "DataEase is the lightweight . . . in the documentation category" (22:111). Also, in the area of programming, DataEase has "the fewest programming commands of the [high-end databases]", however, ". . . you can do just about anything that you want to do . . ." (22:113). Overall, DataEase received a good rating from PC Magazine and was determined to be ". . . the product of choice if you are looking for power - without becoming a master programmer" (22:117).

R:base System V. R:base System V is distributed by Microrim of Redmond, Washington, and lists for $700. R:base provides impressive, menu-driven facilities for non-programmers and installs easily to the hard drive. This database system, however, will not operate on floppy drives because of its size. The more than 900 pages of documentation is divided into a learning guide, a user's

manual, and a building applications/command dictionary
(22:111). In the area of programming, R:base has 89
commands and 70 functions, however, "the System V language
takes some getting used to" (22:113). Overall, R:base also
received a good rating from PC Magazine, but the rating
indicated that "System V is slow, and the programming
features are limited in some unlikely places. . ." (22:117).

dBase III Plus Version 1.0. dBase III Plus, Version
1.0 is distributed by Ashton-Tate of Torrance, California.
It lists for $695 and is well-known for its power and
flexibility (22:112). dBase III Plus is listed on the Air
Force's Small Computer Standard Contract as approved for
military purchase. The new pull-down menus gives the user
"access to nearly every feature in the dBase III system"
(22:112). The system installs easily on a hard drive and
works well with floppy-based computers. In the area of
programming, dBase III Plus outshines its competitors by
far. It has 153 commands and 70 functions and comes with
more than 1000 pages of documentation. Overall, PC Magazine
rated dBase III Plus as its "Editor's Choice" for its power
and flexibility, built-in program generator, and excellent
menu-driven facilities (22:117).

Condor III, Version 2.20a. Condor III database
management software is distributed by Condor Computer
Corporation of Ann Arbor, Michigan. The databases of Condor
Corporation have long been the standard for many government

27

agencies. Condor III is flexible and easy to use but has limited programming capabilities. It has a built-in reports writer; however, the reports writer program is "cumbersome to use" (12:141-142). Condor III lists for $495 and is also identified on the Air Force's Small Computer Standard Contract as approved for military purchase (12:142).

Other Database Management Packages. A review of several "low-end" database packages was also performed. Low-end means that the prices are low, programmability is difficult and features are limited, when compared to the more powerful database packages reviewed above. Database packages reviewed included PFS:Professional File by Software Publishing Corporation, Q&A Version 2.0 by Symantec, and PowerBase Version 2.3 by PowerBase Systems Inc.(12:119-133). While each package has its advantages (mostly ease of use) the limitation of power and programming capability tend to exclude these packages from consideration for a large scale application program such as supply training management.

Research Question # 3

What complaints and/or suggestions do users of currently available software have about their product?

This question was difficult for the various users to answer because after a system has been in use for awhile, problems that were noted in the beginning are forgotten and work-arounds established. User's comments for each system found are listed below beginning with PATS and SMART.

PATS/SMART. These two programs are grouped together because they are basically the same program. As indicated earlier, PATS was designed for Reserve units to track recurring training and SMART is just a modified version of PATS tailored to supply training. To answer this research question, interviews were performed with each CONUS MAJCOM supply training manager. Comments received were far from encouraging. Each manager interviewed, with the exception of the AFLC manager, indicated the program(s) were received by their office. Complaints recorded include: too difficult to use, hard to understand, not user friendly, problems accepting data, didn't accommodate social security numbers, and limited capability. As far as actual field use, the MAJCOM training offices indicated they distributed the software, however, weren't sure anyone in supply training was using it. One supply training monitor interviewed indicated that PATS was tried and, after two unsuccessful attempts at getting the program to work, was shelved.

From all the people interviewed, the most common complaints can be synthesized as lack of user friendliness and difficulty of use.

BSCTS. The author of this system indicated he knew of no one using his software other than himself, however, he did provide several comments on improvements which are underway. His suggestions on improving the software included: "fixing" the scheduling module, (program currently

reschedules everybody for every class whether they need it or not); adding the organizational code for each equipment custodian to benefit the Equipment Management Section (EMS); and improving the no-show notification (25). The AFLMC reviewed the software and indicated that the program was good but for their purposes needed to be more "generic" and handle more than just BSCT (3).

Other Automated Methods. Included in this category are the users of database management software, spreadsheets, and word processing packages. The users of the above systems generally indicated they were satisfied with their particular systems. Of the three systems, however, only one--the database management software, provides true automation as previously defined. The user of the database management software indicated she had no scheduling capability, and had no need for it as long as the AF Form 2426, Training Request Form, was required by regulation. On this note, it was interesting to find that the future of the AF Form 2426 is now in question and being studied by the Air Staff for possible automation or deletion (3).

Research Question # 4

Which training requirements would be applicable to a microcomputer-based tracking system?

When asked which training requirements could be feasibly tracked with an automated system, the supply training monitors responded freely. Their responses are

recorded in Table 2. The replies shown above indicate, in the opinion of the supply training experts polled, ancillary training and Base Supply Customer Training are training categories that could be effectively and efficiently managed with a computer-based tracking system. Mobility training, although receiving a slightly less favorable response, was also believed to be applicable to an automated system. One relatively negative response received was based on the difficulty of maintaining an automated system in a mobilized-force environment. The 28 percent favorable response, or 72 percent unfavorable response, received by On-the-Job Training represents the relative infeasibility of automating this category of training. Most negative responses cited the difficulty of keeping an OJT system updated and the large number of changes that OJT undergoes.

Table 2. Training Area Feasibility Responses

TRAINING AREA	FAVORABLE RESPONSE
Ancillary Training	72 percent
Supply Customer Training	92 percent
On-the-Job Training	28 percent
Mobility Training	64 percent

Research Question # 5

If no satisfactory software exists, what kind of training management information system could be developed from software, already in existence, to aid supply squadron training monitors in the accomplishment of their duties?

Based on the interviews conducted, it is apparent that supply training monitors keep track of far more than just Base Supply Customer Training. In fact some 71 percent are responsible for at least one other area of training and 54 percent are responsible for two additional areas of training. A system to meet the needs of all monitors must be able to accommodate not only customer training, but also the wide variety of Ancillary, Mobility, and other miscellaneous training such as precious metals recovery and computer operations training. Of the systems already in existence, none meet the requirements of the supply training monitors in flexibility, ease of use, and user friendliness. Of the programs reviewed, the BSCTS, designed by Mitchell Rogers, comes the closest to meeting the criteria established. The area in which it fails is flexibility. The program is designed for customer training only and has no facility to handle training data other than customer block training. The PATS/SMART program, while highly flexible, fails miserably in the areas of user friendliness and ease of use. Based on these results and the interviews performed, it is evident that no currently available

software exists that will meet the needs of supply training monitors.

The design of a system which is flexible, easy to use, user friendly, and tailored to the specific needs of the supply training monitors is necessary. Based on the review of commercial database software, dBase III Plus will be used. dBase III Plus was chosen because of its powerful programming language, its built-in reports generator and screen-form designer, it is already widely used in the Air Force, and it is on the AF Small Computer Contract.

The following chapter describes the software program designed and developed to satisfy the data collection and information system needs of the supply training monitors.

V. Supply Training Management Information System (STMIS)

Initial Design

As previously mentioned, dBase III Plus was used to create the supply training information system. The program was written using the built-in database programming language of dBase III and uses very simple coding so that future changes to the code can be easily performed. The technique used was that of modular programming, i.e., each training area was built separately and then all areas tied together with menus. This modular method of programming will allow updating and modifications to be performed without changing the entire software package. To meet the established criteria of ease of use and user friendliness, every function in the STMIS program is menu driven, and on-line help screens serve to explain each menu selection. For flexibility, STMIS was designed specifically for the supply training monitor and as such, was tailored to meet the basic needs of every supply training monitor. In addition, the program will accommodate those monitors who also must manage Ancillary and Mobility training. Furthermore, a special module was added to allow further flexibilty for those training monitors who must track and schedule training not included in any of the above categories. Using the initial design based on ideas gathered through the interviews and training regulation research, a field test was conducted at

Wright-Patterson Air Force Base by the Chief of the Supply
Training Section, Ms. Jody Taylor.

Results of Field Evaluation

The initial STMIS program was evaluated on 14 June
1989, using a test database included with the program, on a
Zenith 248 computer located in the Supply Customer Service
and Training Section at Wright-Patterson Air Force Base.
Based on the thorough evaluation performed by Ms. Taylor,
several features were added, some revised, and others fixed.
A discussion of the changes and enhancements suggested by
Ms. Taylor follows.

In the initial design, facilities were built-in to
accomodate creating and editing data files. Because of the
program flow, if the user chose the CREATE/EDIT option, then
he/she had no choice but to create a new record or edit an
existing record. There was no facility to allow the user to
simply search the database for general information. Ms.
Taylor indicated that a general search capability was
necessary to respond to requests for training verification
(29). This capability was added in the final code.

An area that needed fixing was the printing capability
of each module. The original program flow assumed that all
listings and reports would be directed to a printer. With
minor modifications, the program now questions the user
whether or not the output should be directed to the printer
or to the computer screen.

An oversight discovered by Ms. Taylor was that although the program had the capability to track Block III, Equipment Custodian Training, test scores, there was no facility available to directly input them easily (29). To accomodate this request, the program was modified to accept test scores during the class attendance reconciliation procedures.

Another enhancement suggested by Ms. Taylor was to add several reports in the Miscellaneous Training Module to print a list of all personnel with a given training (29). While this suggestion is worthwhile, the ever-growing size of the STMIS program code and the low probability of need for this feature, precluded addition. Just as a note, the program will allow a printout as described by Ms. Taylor, but requires changing the training frequency, for the training in question, to zero days.

Overall, Ms. Taylor indicated she thought the program was very thorough and would be very helpful to supply training monitors. Additionally, she said the ability of the program to calculate and print the annual MAJCOM training summary would save much time from the old method of tallying attendance rosters or AF Forms 2426 (29).

After the evaluation, the program code was modified to include the changes indicated above. The program code for the STMIS is located in Appendix B. The final design of the STMIS program and its capabilities are discussed below.

Main Menu Module

The main menu module connects each of the training area modules together to form a flexible and powerful database system that will meet the needs of supply training monitors. An overview of the STMIS program is shown in Figure 3.

The STMIS program is divided into three training areas: Base Supply Customer training, Ancillary training, and Miscellaneous training. Each training module is accessible from the main menu (shown in Figure 4) and will subsequently be discussed in more detail. In addition to the training modules (options 3,4,or 5), a program configuration option (6), a record deletion option (7), and a database backup option (8) are included in the main menu selections. The
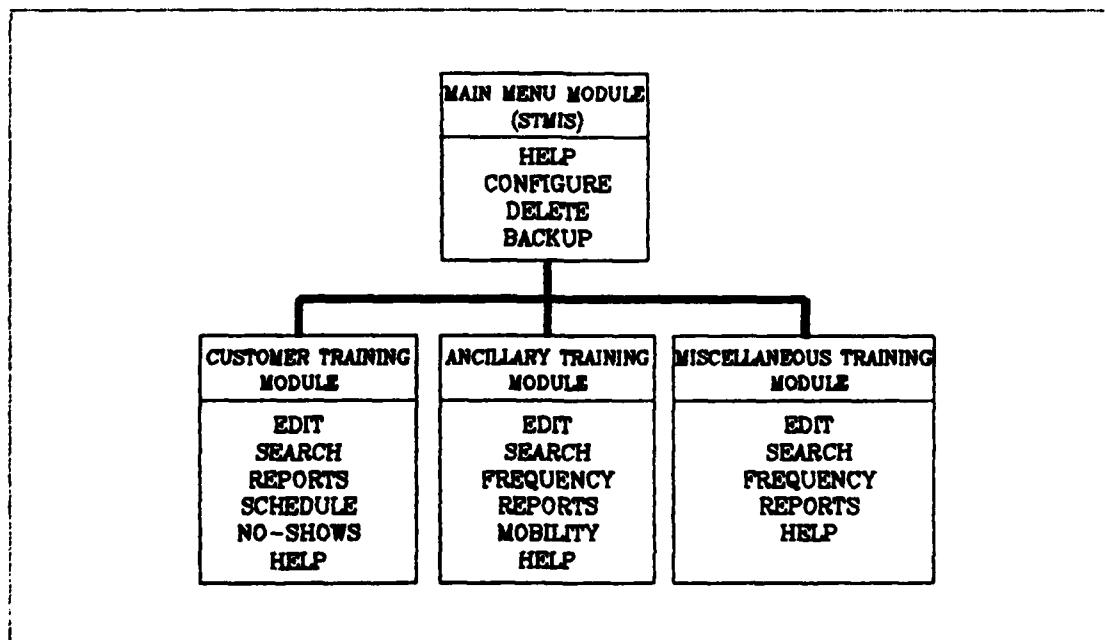
Figure 3. Supply Training Management Information System Overview

```
┌─────────────────────────────────────────────────────────────┐
│  SUPPLY TRAINING MANAGEMENT INFORMATION SYSTEM    Wednesday, July 12, 1989 │
│ ════════════════════════════════════════════════════════════ │
│                                                               │
│   1. PROGRAM INFORMATION          5. MISCELLANEOUS TRAINING    │
│                                                               │
│   2. MENU OPTION EXPLANATIONS     6. PROGRAM CONFIGURATION     │
│                                                               │
│   3. SUPPLY CUSTOMER TRAINING     7. DELETE DATA RECORDS       │
│                                                               │
│   4. ANCILLARY TRAINING           8. BACKUP DATABASE ON FLOPPY │
│                                                               │
│                 0. EXIT WITHOUT BACKUP                         │
│                                                               │
│  Last Update:      Please Enter Your Choice  0      MAKE SURE  │
│  06/15/89                                       CAPS LOCK IS ON│
└─────────────────────────────────────────────────────────────┘
```

Figure 4. STMIS Main Menu Screen

program configuration option allows the users to set the

screen colors to a combination most pleasing to them and

allows the setting of the class building number, which

prints on training confirmation notices. The record

deletion option allows the training monitor to selectively

delete records from the database. Deletion would be

necessary when personnel PCS, retire, or separate from the

Air Force. The database backup option allows the user to

automatically backup the training database and all memory

variable files to a floppy diskette for safekeeping. This

last feature could prove to be a lifesaver in case of

computer malfunction and its use, as often as possible, is

strongly encouraged. In addition to the menu option for

backing up the database, the EXIT selection (option 0) has a

38

safeguard built in to question the users if they inadvertently try to exit without backing up the data. Last, the main menu, like all of the training module menu screens, provides the user with the date the database was last updated and the current operating date.

Base Supply Customer Training Module

The supply customer training module is designed to track, schedule, and monitor supply customer training. The main menu for this module is shown in Figure 5.

Upon reciept of the AF Form 2426, indicating an organization wanting to schedule a person or persons for training, the training monitor, after deciding on the class date, will input the individuals name and class information into the database via menu option 5, Schedule Training. A

```
┌──────────────────────────────────────────────────────────────┐
│  BASE SUPPLY CUSTOMER TRAINING MODULE        Wednesday, July 12, 1989 │
│ ══════════════════════════════════════════════════════════════ │
│                                                                │
│      1. MENU OPTION EXPLANATIONS      4. MANAGEMENT REPORTS     │
│                                                                │
│      2. CREATE/EDIT RECORDS           5. SCHEDULE TRAINING      │
│                                                                │
│      3. SEARCH DATABASE               6. MARK/PRINT NO-SHOWS    │
│                                                                │
│                    0. EXIT TO MAIN MENU                        │
│                                                                │
│  Last Update:        Please Enter Your Choice   0              │
│  06/15/89                                                      │
└──────────────────────────────────────────────────────────────┘
```

Figure 5. Base Supply Customer Training Module
Main Menu Screen

confirmation notice can then be produced and sent to the requesting organization, showing class, class date, building, and the trainee's name. The confirmation listing is produced via menu option 4, Management Reports (see Figure 6).

Prior to the class, the training monitor can print an attendance roster of all personnel scheduled to attend. The attendance roster is initialed by the trainees attending and is produced with menu option 4. After the class, the monitor, using the initialed attendance roster, can mark the no-shows and enter Block III test scores, if applicable. The No-show facility, menu option 6 (Figure 5), will then print a no-show listing which can be sent to the affected organizations. No further entry is necessary by the training monitor. The program deletes the scheduled date of

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╔══════════════════════════════════════════════════════════════╗
║  SUPPLY CUSTOMER TRAINING MANAGEMENT REPORTS FACILITY  07/12/89 ║
╠══════════════════════════════════════════════════════════════╣
║                                                                ║
║  1. EXPLANATION OF REPORTS        4. SCHEDULE CONFIRMATION NOTICE║
║                                                                ║
║  2. CLASS ATTENDANCE ROSTER       5. EQUIPMENT MANAGEMENT REPORT ║
║                                                                ║
║  3. ANNUAL TRAINING REPORT        0. RETURN TO PREVIOUS MENU    ║
║                                                                ║
║                   SELECT A NUMBER 0                            ║
╚══════════════════════════════════════════════════════════════╝
```
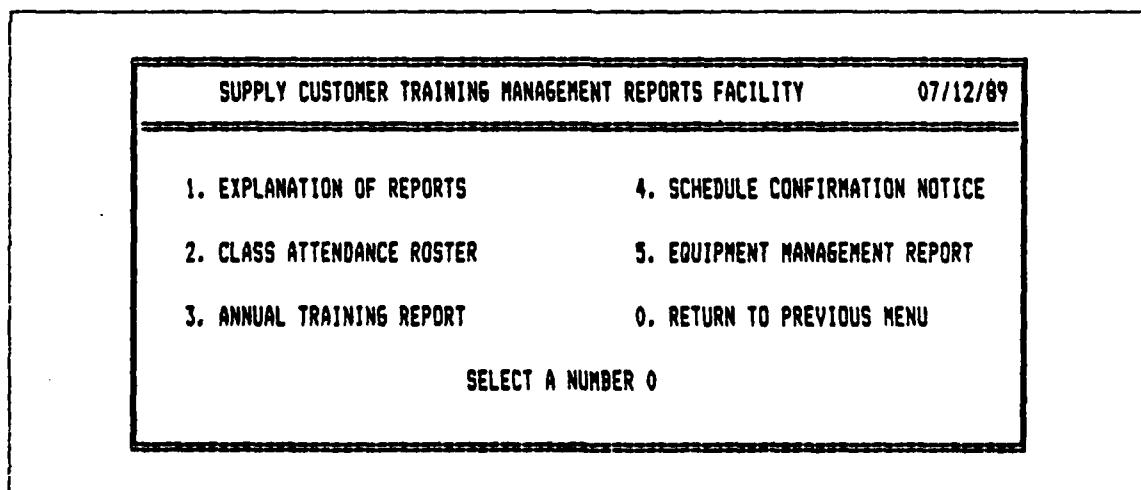
Figure 6. Supply Management Reports Menu Screen

40

those not attending, and leaves the date previously entered when initially scheduled for those that did attend.

In addition to the reports previously mentioned, an equipment management report is also included which prints a listing of all personnel trained in Block III and their organizational account. The listing is printed in account order and can be given to the Equipment Management Section for training verification. The last report available on the management reports menu is the Annual Training Summary, as specified in AFR 50-1. STMIS calculates all the necessary hours/numbers based on average class times input by the user. A sample training summary report is provided in Figure 7.

Ancillary Training Module

The Ancillary Training module was designed to aid supply training monitors who also track and manage the unit Ancillary Training Program (ATP). According to CMSgt Alvin LeBlanc, Supervisor of the Training Management and Development Section at HQ AFMPC, a new AFR 50-1, Ancillary Training Program, will be published in mid 1989 (15). The revised regulation eliminates the use of the AF Form 991, Ancillary Training Card, and almost eliminates the requirement for unit training monitors to track ancillary training (10). The primary responsibility for tracking will be placed on the base-level training agency responsible for the training, e.g., Base Supply for Customer Training.

Annual Supply Training Summary CY 1989						
Category	Block I	Block IIA	Block IIB	Block III	Block IV	Total
# Officers	14	3	3	1	3	24
Off Hours	98.0	9.0	7.5	7.0	9.0	130.0
# Enlisted	12	3	3	4	1	23
Enl Hours	84.0	9.0	7.5	28.0	3.0	107.5
# Civilian	1	1	1	1	1	5
Civ Hours	7.0	3.0	2.5	7.0	3.0	22.5
Total #	27	7	7	6	5	52
Tot Hours	189.0	21.0	17.5	42.0	15.0	284.5

Figure 7.   Sample Annual MAJCOM Training Summary Report

Disaster Preparedness for Chemical Training, etc. Although
most unit level responsibility will be deleted, unit
training monitors will still be required to insure
unit-level training is performed and tracked. Unit-level
training includes Physical Security training, Communications
Security training, etc (7).

Since several areas of Ancillary Training will still
need to be tracked at the unit-level, the STMIS Ancillary
Training module is designed to accomodate those courses.
The main menu screen for this module is shown in Figure 8.
Because frequency of training for these courses varies among
units, bases, and MAJCOMs, menu option 4, DEFINE/VIEW

```
ANCILLARY TRAINING MODULE                    Wednesday, July 12, 1989
==================================================================

        1. PROGRAM INFORMATION        4. DEFINE/VIEW FREQUENCY

        2. CREATE/EDIT RECORDS        5. MANAGEMENT REPORTS

        3. SEARCH DATABASE            6. MOBILITY REPORTS

                    0. EXIT TO MAIN MENU

   Last Update:         Please Enter Your Choice   0
   06/15/89
==================================================================
```
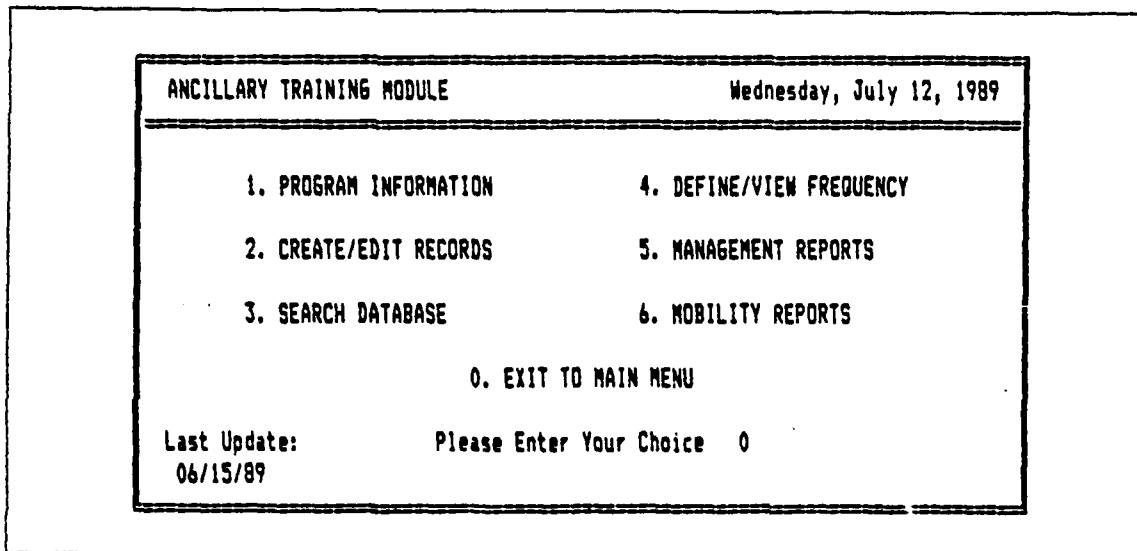
Figure 8. Ancillary Training Module Main Menu Screen

FREQUENCY, allows the training monitor to configure the
module to the requirements at his/her particular base. The
Frequency Current Values menu screen is shown in Figure 9.
With this screen menu, the user can interactively change the
training frequencies of the Ancillary Training courses
shown. The frequency values are then used by STMIS when the
Ancillary Training Management Reports option is chosen.
Shown in Figure 10, the Management Reports facility keys off
the frequencies input previously and provides "Training Due"
listings of all personnel within one month of their training
expiration date. Similar to the above menu, the Mobility
Reports option, provides reports strictly on personnel
assigned to a mobility position. Although not required by
the new AFR 50-1, it is assumed unit mobility officers will
still want visibility over mobility team training. Menu

43

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╔══════════════════════════════════════════════════════════╗
║      ANCILLARY TRAINING FREQUENCY CURRENT VALUES (IN DAYS)║
╠══════════════════════════════════════════════════════════╣

      1. OPSEC          180        6. EOR          180

      2. CONSEC         365        7. SA/BC        365

      3. PHYSEC          90        8. CWDTR        180

      4. TERRORISM      365        9. TGT          180

      5. HUMINT         365        0. EXIT MENU


              WHICH DO YOU WANT TO CHANGE ? 0

╚══════════════════════════════════════════════════════════╝
```
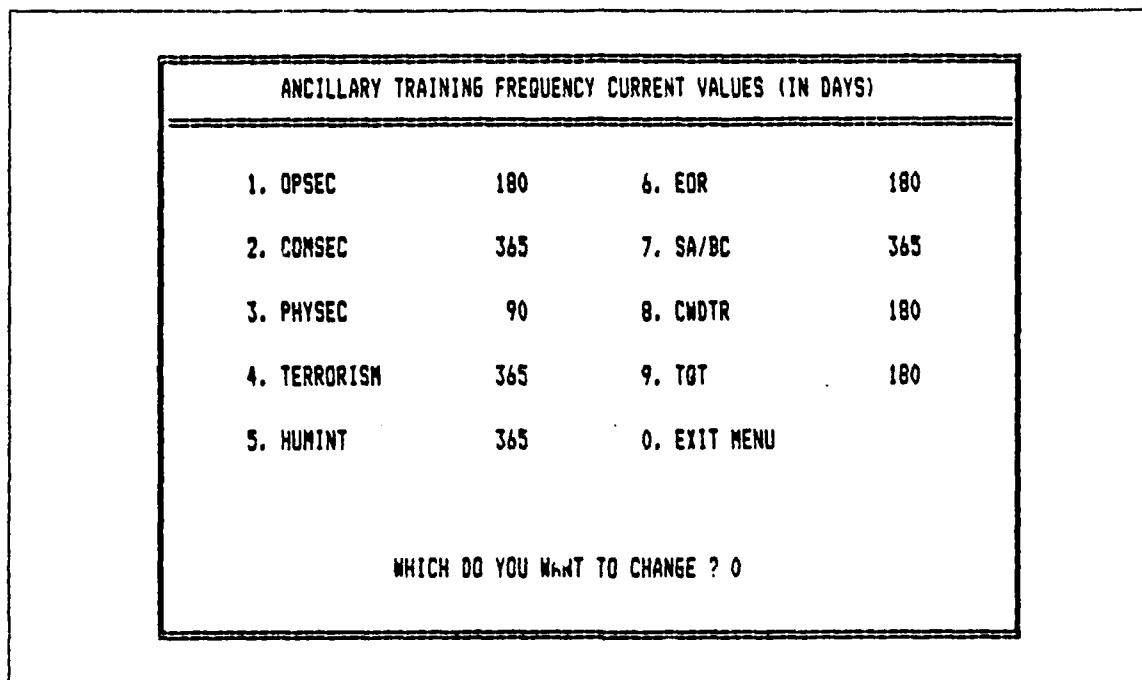
Figure 9.   Ancillary Training Frequency Current Values
Menu Screen

```
╔══════════════════════════════════════════════════════════╗
║          ANCILLARY TRAINING MANAGEMENT REPORTS FACILITY  ║
╠══════════════════════════════════════════════════════════╣

   1. PERSONNEL DUE CONSEC          4. PERSONNEL DUE HUMINT

   2. PERSONNEL DUE PHYSEC          5. PERSONNEL DUE OPSEC

   3. PERSONNEL DUE PROT/TERRORISM  0. EXIT REPORTS MENU

                   SELECT A NUMBER 0

╚══════════════════════════════════════════════════════════╝
```
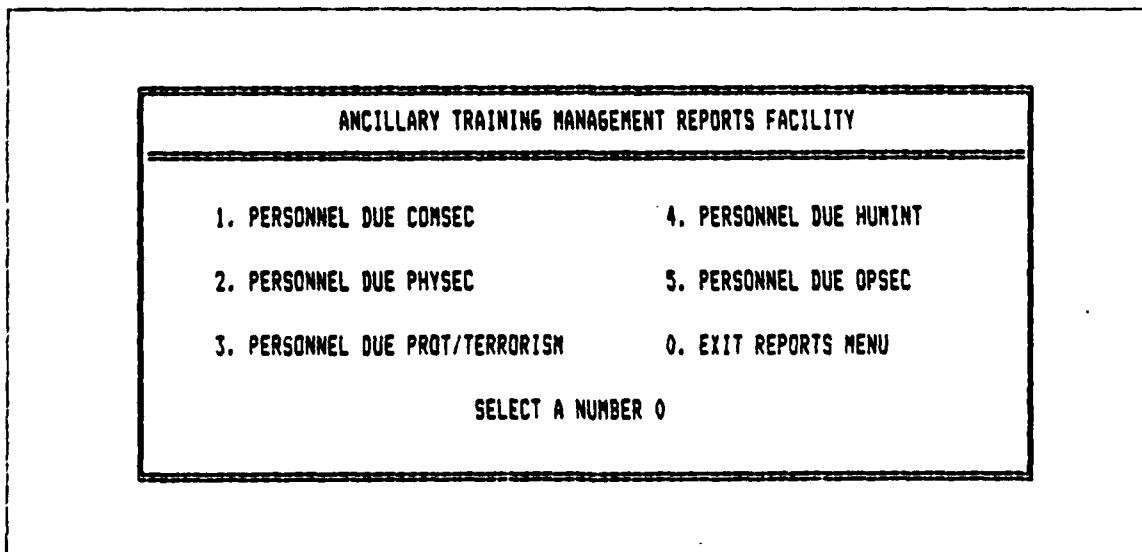
Figure 10. Ancillary Training Management Reports
Menu Screen

options 2,3,4,5, and 6 provide "Training Due" listings for the major mobility training courses. In addition, menu option 1, Mobility Training Data Dump, provides a listing of all mobility personnel and all mobility-related training. The menu screen for the Mobility Reports option is shown in Figure 11.

Miscellaneous Training Module

The two training modules already discussed are very specific in the training they track and manage. The Miscellaneous training module, however, gives the user great flexibility in the type of training that can be tracked. The main menu screen is shown in Figure 12. With this module, supply training monitors can track a wide variety of

```
==========================================================
               MOBILITY TRAINING MANAGEMENT REPORTS FACILITY
==========================================================

    1. MOBILITY TRAINING DATA DUMP     4. PERSONNEL DUE TQT

    2. PERSONNEL DUE CWDTI             5. PERSONNEL DUE SABC

    3. PERSONNEL DUE CWDTR             6. PERSONNEL DUE EOR

                  0. EXIT REPORTS MENU

                  SELECT A NUMBER 0
==========================================================
```
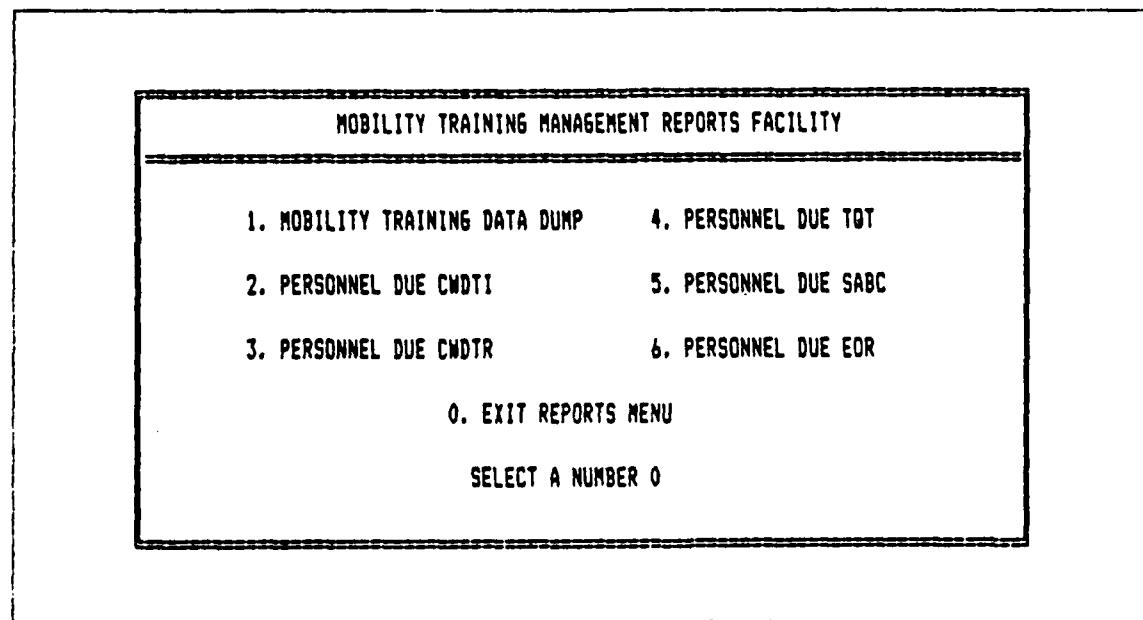
Figure 11. Mobility Training Management Reports
Menu Screen

```
╔═══════════════════════════════════════════════════════════════╗
║ MISCELLANEOUS TRAINING MODULE              Wednesday, July 12, 1989 ║
╠═══════════════════════════════════════════════════════════════╣


        1. PROGRAM INFORMATION        4. DEFINE/VIEW HEADINGS/FREQ


        2. CREATE/EDIT RECORDS        5. MANAGEMENT REPORTS


        3. SEARCH DATABASE            0. EXIT TO MAIN MENU



   Last Update:        Please Enter Your Choice   0
   06/15/89
╚═══════════════════════════════════════════════════════════════╝
```
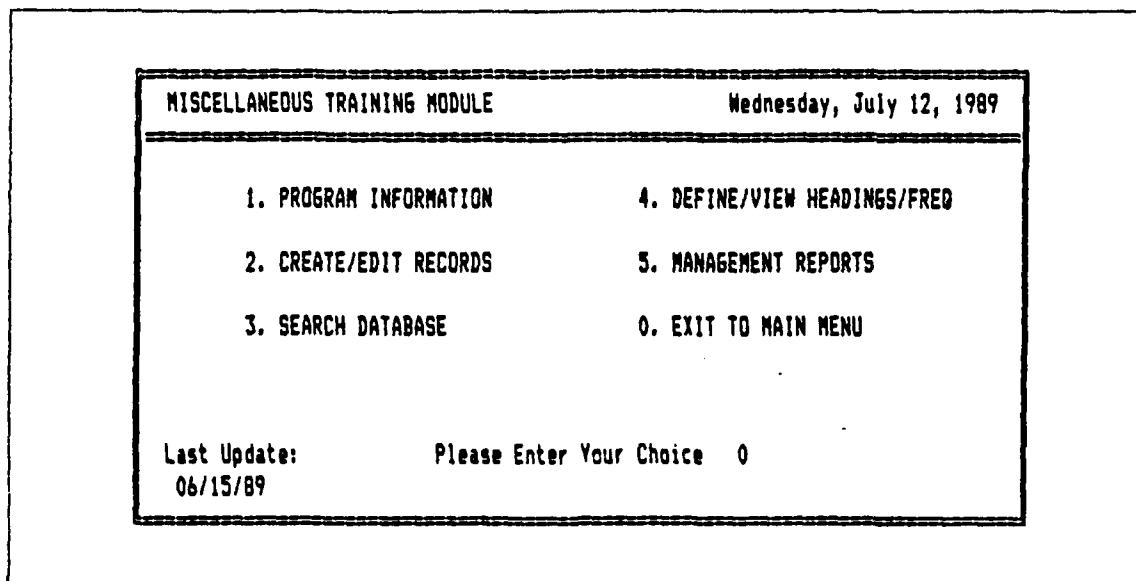
Figure 12.   Miscellaneous Training Module
Main Menu Screen

training.   Some suggestions include: Precious Metals

Recovery training, and various workcenter-specific training,

such as Computer Operations training.   Like the Ancillary

Training module, the user can select menu option 4 to define

the frequencies of recurring training and, in addition, can

define the headings used to identify the miscellaneous

training.   The menu option 4 menu screen is shown in Figure

13.   Sample headings and frequencies were input during

program design.   Like the other two modules, the

Miscellaneous training module also provides management

reports.   Because the specific training to be used in this

module is not known, the management reports are limited to

"Training Due" listings based on the frequencies defined by

the user.   The Reports menu screen is shown in Figure 14.

46

```
╔═══════════════════════════════════════════════════════════╗
║  MISCELLANEOUS TRAINING HEADINGS/FREQUENCY (IN DAYS) CURRENT VALUES  ║
╠═══════════════════════════════════════════════════════════╣

      1.  STDS COND      180        6.  CRM PREV      365

      2.  UCMJ           365        7.  CTRL CNTR      90

      3.  DLVRY TRK      365        8.  HURRICANE     180

      4.  PROT/PRES      365        9.  TYPING        365

      5.  TORNADO        365        0.  UNDEFINED     365

                      E. EXIT MENU

                WHICH DO YOU WANT TO CHANGE ? E

╚═══════════════════════════════════════════════════════════╝
```

Figure 13. Miscellaneous Training Heading/Frequency
Current Values Menu Screen

The data entry forms used with this module, as with the other modules, are shown in Appendix C.

The STMIS program, as designed, meets all established criteria for a supply training management system. The modular programming technique used, coupled with the power of dBase III Plus database programmming language gives the supply training monitor a powerful, flexible--but not too generic, easy to use, and user-friendly system to manage the training requirements under his/her responsibility. Once the AFLMC compiles the code, writes an extensive user's guide, and thoroughly field tests the program, the STMIS software will be ready for distribution (3). Completely

```
┌────────────────────────────────────────────────────────────────┐
│        MISCELLANEOUS TRAINING MANAGEMENT REPORTS FACILITY        │
├────────────────────────────────────────────────────────────────┤
│                                                                  │
│   1. PERSONNEL DUE STDS COND        6. PERSONNEL DUE CRM PREV     │
│                                                                  │
│   2. PERSONNEL DUE UCMJ             7. PERSONNEL DUE CTRL CNTR    │
│                                                                  │
│   3. PERSONNEL DUE DLVRY TRK        8. PERSONNEL DUE HURRICANE    │
│                                                                  │
│   4. PERSONNEL DUE PROT/PRES        9. PERSONNEL DUE TYPING       │
│                                                                  │
│   5. PERSONNEL DUE TORNADO          0. PERSONNEL DUE UNDEFINED    │
│                                                                  │
│                  E. EXIT REPORTS MENU                            │
│                                                                  │
│                  SELECT A NUMBER E                               │
│                                                                  │
└────────────────────────────────────────────────────────────────┘
```
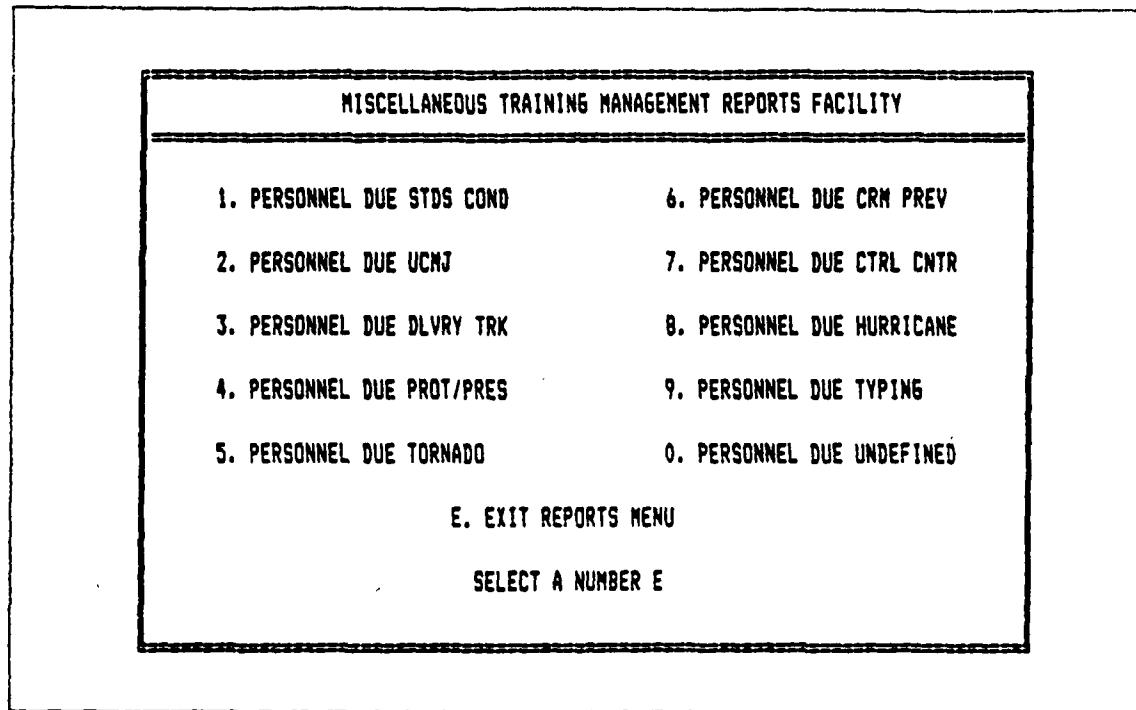
Figure 14.   Miscellaneous Training Management Reports
Menu Screen

menu-driven and possessing on-line help facilities. STMIS

will allow even the novice computer user to get started

right away managing supply training.

VI. Conclusions and Recommendations

Supply training monitors are responsible for scheduling and tracking the training for large numbers of squadron and base personnel. The old methods of using log books, attendance rosters, and card files to manage these training requirements are inefficient and very time-consuming. The AFLMC, seeing the need to automate the training management function, sponsored this study to "find" a system that would meet the needs of the supply training monitors.

To achieve this objective, the study was divided into two stages. First, a complete search was performed for currently-available training management systems. A complete search of the DTIC database, and the Dial-a-Log logistics software bulletin board was performed and uncovered two training management software packages, PATS and SMART. Interviews with the persons responsible for each training area were performed and met with limited success. None of the managers interviewed had established standardized computer packages for their monitors to use, however, most referred to the two packages mentioned above. Contact with Army and Navy training personnel indicated the use of computers to track training requirements didn't exist in these services. The majority of training for personnel in these two services was conducted at division-level and maintained by the officer-in-charge in log books or with

cards. Next. a search for commercially-available training
management systems was conducted with little success.
Although no training management-specific software was found,
several commercial database management systems were
reviewed.

Based on the results of the first stage, it was evident
that no satisfactory, flexible, user-friendly training
management system existed for training monitors to use.
Based on the review of commercial database management
packages, dBase III Plus was chosen to serve as the building
block for a training management application program that
would meet the criteria mentioned above. The Supply
Training Management Information System, STMIS, program was
written using the dBase III Plus programming language. Many
interviews were performed with supply training monitors
across the United States to gather information for basic
design considerations.

The training monitor interviews indicated that 71
percent of the monitors were managing training areas in
addition to Base Supply Customer training. When asked which
training areas would be applicable to automation, the
monitors responded almost unanimously that supply customer
training would be applicable. Receiving slightly less
favorable responses, but still a significantly large
affirmation, were Ancillary training and Mobility training.
On-the-Job training was thought, by the monitors polled, to

be too difficult to automate. Based on the information gathered from the interviews, an initial design of the STMIS program was formulated and written.

The initial design of the STMIS program incorporated each of the training areas indicated by the training monitors as applicable to automation. On-the-Job training was omitted. To make the program easy to use and were user friendly, all actions required of the user are accomplished through menu screens. Several possible human errors were eliminated. On-line help screens, describing menu options and use, were provided to eliminate the need for a reference manual. To facilitate updates and modifications, each training area was programmed as a separate program module. Finally, to meet the criterion of flexibility, a miscellaneous training module was incorporated into the STMIS design whereby users can define training requirements not covered in the other modules. The STMIS program was successfully evaluated by a supply training monitor and minor modifications were made.

Through the success achieved herein, a designed and tested software system could easily be duplicated for other areas in the Air Force. With the common availability of the personal computer in Air Force offices, many time-saving programs can be developed to aid the users in accomplishing their duties. A few suggestions include a program similar to STMIS, but developed for base-level trainers to track the

training for which their office is responsible. Further, since several of the trainers interviewed for this research indicated their mobility program was handled by a separate office. A more extensive, stand-alone mobility program could prove very useful to those mobility trainers.

Opportunities abound in the Air Force for software packages such as the STMIS. In almost every facet of every job, a computer program could be developed to more efficiently and effectively perform the job at hand. Computers are the future and user-specific software is a must to fully utilize the capabilities brought forth by this amazing machine.

Appendix A: Sample Questions Used in Unstructured
Interviews with Supply Training Monitors

This appendix lists several sample questions that were used
as a guide during the unstructured interviews with the
Supply Training monitors. Some questions may have been
omitted, and some questions not listed may have been used.
The questions below were used mainly to spark conversation
and serve as a memory tickler for possible questions and
areas to discuss.

Demographic Questions

- What is your name?

- What is your job title?

- How many years of supply experience do you have?

- How many years of supply training experience do you have?

- How would you rate your personal computer experience?

General Questions

- What training requirements does your section track and
  schedule?

- What method of tracking, manual or computer, do you
  currently use?

- Which training requirements do you think would be
  applicable to a automated system of tracking?

If Manual System is Employed:

- What type of manual method do you use?

- Have you tried a computer tracking system before?

- How many training reports must you produce annually
  requiring the training information you keep?

- Do you have a computer available for you to use?

- Do you think a computer tracking system would be helpful to you?

If Computer System is Employed:

- What is the computer program you are currently using?

- How long have you been using the program?

- What type of computer are you using?

- If program was developed locally, who developed it?

- Do you have any complaints or suggestions to improve your current package?

- How many training reports must you produce annually requiring the training information you keep?

Appendix B: Program Code for STMIS

This appendix contains the program code for the Supply Training Management Information System developed as a result of this research project.   The program is divided into four basic sections.   References are provided below for each.

```
* Program.....: STMIS.PRG
* Author......: Capt Herb Phillips - AFIT Class 89S
* Date........: 08/01/89
* Description.: Main Menu Screen for STMIS Program.
* Set Environment
SET SCOREBOARD OFF
SET HEADINGS OFF
SET TALK OFF
SET BELL OFF
SET STATUS OFF
SET ESCAPE OFF
SET CONFIRM OFF
USE THESIS INDEX LASTNAME
RESTORE FROM COLOR.MEM ADDITIVE
SET COLOR TO &FC/&BC,R/W+.&BDC
LU=0
* Display Main Menu options
DO WHILE .T.
   CLEAR
   @ 2, 0 TO 18.79 DOUBLE
   @ 3, 3 SAY [SUPPLY TRAINING MANAGEMENT INFORMATION
SYSTEM]
   @ 3.53 SAY CDOW(DATE())+", "+CMONTH(DATE())+"
"+LTRIM(STR(DAY(DATE()),2))+", "+LTRIM(STR(YEAR(DATE()),4))
   @ 4,1 TO 4,78 DOUBLE
   @  6,10 SAY [1. PROGRAM INFORMATION]
   @  8,10 SAY [2. MENU OPTION EXPLANATIONS]
   @ 10,10 SAY [3. SUPPLY CUSTOMER TRAINING]
   @ 12,10 SAY [4. ANCILLARY TRAINING]
   @  6,45 SAY [5. MISCELLANEOUS TRAINING]
   @  8,45 SAY [6. PROGRAM CONFIGURATION]
   @ 10,45 SAY [7. DELETE DATA RECORDS]
   @ 12,45 SAY [8. BACKUP DATABASE ON FLOPPY]
   @ 14,30 SAY [0. EXIT WITHOUT BACKUP]
IF LU < 1
   @ 16,3 SAY [Last Update:]
   @ 17,4 SAY LUPDATE()
ENDIF
   selectnum=0
IF LU < 1
   SET COLOR TO &FC*/&BC,R/W+.&BDC
ENDIF
   @ 16,63 SAY "MAKE SURE"
   @ 17,60 SAY "CAPS LOCK IS ON"
   SET COLOR TO &FC/&BC,R/W+,&BDC
   @ 16,27 SAY "Please Enter Your Choice"
   @ 16,54 GET selectnum PICTURE "9"
   READ
   CLEAR
```

```
    DO CASE
        CASE selectnum = 0
            CLEAR
SET COLOR TO &FC*/&BC.R/W+,&BDC
@ 4,22 SAY "************  WARNING  *************"
SET COLOR TO &FC/&BC,R/W+,&BDC
TEXT

                        YOU HAVE NOT BACKED UP YOUR DATABASE ON
A
                        FLOPPY DISKETTE.  IF YOU STILL WISH TO
EXIT
                        WITHOUT CREATING A BACKUP FILE, PRESS
Y.
                        IF YOU WISH TO CREATE A BACKUP FILE. PRESS
N.
ENDTEXT
@3,6 TO 13,74 DOUBLE
?CHR (007)
@11,8 SAY "   Do you wish to EXIT without backing up the
database  (Y/N) ? "
?
?
ANSWER = " "
@ 11,72 GET ANSWER  PICTURE "Y"
READ
CLEAR
IF UPPER (ANSWER) = "Y"
    CLEAR
    RETURN
ELSE
    DO BACKUP
ENDIF
        CASE selectnum = 1
            DO INFO.PRG
            LU = 1
      CASE SELECTNUM = 2
            DO INFOSTMS.PRG
            LU = 1
      CASE selectnum = 3
            DO BSCT.PRG
          · LU = 1
      CASE selectnum = 4
            DO ANCIL.PRG
            LU = 1
      CASE selectnum = 5
            DO MISC.PRG
            LU = 1
      CASE selectnum = 6
            DO CNFIG
            LU = 1
      CASE selectnum = 7
```

```
                DO PACK
                LU = 1
            CASE selectnum = 8
                DO BACKUP
ENDCASE
ENDDO
RETURN
* EOF: STMIS.PRG


* Program.....: INFO.PRG
* Description.: Text program describing the STMIS Program
*               and how, when, and why it was developed.
CLEAR
 @ 1.0 TO 3.79 DOUBLE
 @ 2.18 SAY [SUPPLY TRAINING MANAGEMENT INFORMATION SYSTEM]
 @ 4.2 SAY ' '
TEXT
     Supply Squadron training monitors have before them an
enormous task:  to
   monitor, maintain, and schedule large numbers of base and
squadron personnel
   for many different training requirements.  As more and
more training is
   required of Air Force personnel, the old method of pencil
and paper tracking
   has quickly become obsolete.  To alleviate some of the
time-consuming tasks
   associated with the training monitors duties, the Air
Force Logistics
   Management Center (AFLMC) at Gunter AFB began searching
for new methods to
   improve scheduling and tracking capability at squadron
level.  The research
   performed for an Air Force Institute of Technology
Master's Thesis served as
   the basis for this system design.  This program should
provide for a more
   efficient method of tracking and scheduling training
requirements.

     Feedback is the key control element of any computer
system.  If you have
   any comments or suggestions to improve this software
package, please contact
   the AFLMC at AUTOVON 446-4165, Capt <Name of Program Mgr>
ENDTEXT
@ 1,0 to 21,79 DOUBLE
WAIT
CLEAR
@ 1,0 TO 3,79 DOUBLE
@ 2,30 SAY "NOTES FROM THE AUTHOR"
@ 4,2 SAY " "
```

TEXT
        The STMIS program was written with the ultimate user in
mind -- the Base
    Supply Customer Training Monitor. As such, the program
was written using
    modular programming techniques which separate each
different training area
    into a module of its own. Whether you are responsible for
one, two, or
    three of the areas, the program should prove useful.

        The program was also written with the intent of having
the user need
    little, if any, external documentation to fully use the
software. Hopefully,
    you will find this to be true. At each menu screen there
is an option to
    explain each function accessible with that particular
menu. This option will
    tell you what each option is for, what it does, and other
information.

        Several ideas used in the conceptual phase of this
programming effort
    were provided by Mr. Mitchell Rogers, of the 63rd Supply
Squadron, Norton
    AFB, CA., of whom, the author would like to express his
sincere thanks.

            Author: Captain Herb Phillips, USAF, AFIT Class
89S
ENDTEXT
@ 1,0 TO 22,79 DOUBLE
WAIT
CLEAR
* EOF: INFO.PRG

* Program.....: INFOSTMS.PRG
* Description.: Text program describing the main STMIS menu
options
CLEAR
 @ 0,0 TO 2,79 DOUBLE
 @ 1,13 SAY [SUPPLY TRAINING MANAGEMENT INFORMATION SYSTEM
(STMIS)]
 @ 3,2 SAY ' '
TEXT
    3.   SUPPLY CUSTOMER TRAINING - Program module to schedule,
track, and manage
        Base Supply Customer training information.   In
addition, the module
        allows the user to produce several reports.
    4.   ANCILLARY TRAINING - Program module to monitor

59

selected Ancillary
        training requirements.   Reports include "training due"
listings.

   5.   MISCELLANEOUS TRAINING - Program module to monitor
unit-specific training
        requirements.   (e.g. Control Center training, etc.)

   6.   PROGRAM CONFIGURATION - Allows the user to configure
screen color, class
        building number, etc. to his/her needs.

   7.   DELETE RECORDS - Allows deletion of records when
personnel receive PCS
        orders.

   8.   BACKUP DATABASE ON FLOPPY - Provides a backup of the
user's database on
        a formatted floppy disk placed in the A:> drive.
ENDTEXT
@ 0.0 TO 22.79 DOUBLE
WAIT
CLEAR
RETURN
* EOF: INFOSTMS.PRG

* Program.....: CNFIG.PRG
* Description.: Allows user to configure program options.
SET STATUS OFF
SET SCOREBOARD OFF
SET TALK OFF
SET BELL OFF
SET CONFIRM OFF
SET DELETED ON
SET HELP OFF
SET MENU OFF
SET SAFETY OFF
DO WHILE .T.
CLEAR
@ 3.28 say "STMIS CONFIGURATION SCREEN"
@ 2.20 to 4.60 DOUBLE
@ 6.25 say "1.   CHANGE SCREEN COLORS"
@ 8.25 say "2.   CHANGE BUILDING NUMBER"
@ 10.25 say "3.   TBD"
@ 12.25 say "4.   EXPLANATION OF MENU OPTIONS"
@ 14.25 say "5.   RETURN TO MAIN MENU"
@ 5.20 to 15.60
@ 17.30 say "SELECTION:"
@ 16.20 to 18.60
SELECTNUM=5
@ 17.41 GET SELECTNUM PICTURE "9"
READ

```
CLEAR
IF SELECTNUM=5
   RETURN
ENDIF
IF SELECTNUM=1
   CLEAR
   DO COLOR.PRG
ENDIF
IF SELECTNUM=2
   CLEAR
   @ 10.10 say "Enter the Building Number Where Training is
Held:"
   bldg = "        "
   @ 10.70 get bldg  picture "XXXXX"
   READ
   SAVE ALL LIKE bldg TO bldg.mem
ENDIF
IF SELECTNUM=3
ENDIF
IF SELECTNUM=4
   DO CONHELP.PRG
ENDIF
ENDDO
* EOF: CNFIG.PRG

* Program.....: CONHELP.PRG
* Description.: Text program describing the Configuration
*              Module Menu Options.
CLEAR
 @ 1.0 TO 3.79 DOUBLE
 @ 2.25 SAY [CONFIGURATION HELP SCREEN]
 @ 4.2 SAY ' '
TEXT
  Menu Options:

   1.  CHANGE SCREEN COLORS - Allows the user to set the
screen colors to
      his/her taste.

   2.  CHANGE BUILDING NUMBER - Allows the user the ability
to set/change the
      building number where classes are held.  This building
number will be
      displayed on supply customer training reports.

   3.  TBD -
ENDTEXT
@ 1.0 TO 21.79 DOUBLE
WAIT
CLEAR
RETURN
* EOF: CONHELP.PRG
```

```
* Program.....: COLOR.PRG
* Description.: Allows user to select program colors.
RESTORE FROM COLOR.MEM ADDITIVE
SET TALK OFF
SET BELL OFF
SET CONFIRM ON
CLEAR
TEXT


                        STMIS Color Choices

                N. Black              R. Red

                B. Blue              RB. Purple

                G. Green             GR. Brown

               BG. Light Blue        W+. Bright
White

                        XX. Return to Main Menu


                Please Enter the Letter(s) and Press
RETURN


ENDTEXT
@ 2,10 TO 4,70 DOUBLE
@ 2,10 TO 17,70 DOUBLE
@19,20 SAY "Foreground Choice? "
@ 19,41 SAY FC PICTURE "XX"
@19,41 GET FC
READ
IF FC = "XX"
    RETURN
ENDIF
@ 13,25 SAY "                              "
IF FC <> "   "
   SET COLOR TO &FC/&BC.R/W+.&BDC
ENDIF
@19,20 SAY "Background Choice? "
@ 19,41 SAY BC PICTURE "XX"
@19,41 GET BC
READ
IF BC = "XX"
    RETURN
ENDIF
IF BC <> "   "
   SET COLOR TO &FC/&BC,R/W+,&BDC
ENDIF
```

```
@19.20 SAY "    Border Choice? "
@ 19.41 SAY BDC PICTURE "XX"
@19.41 GET BDC
READ
IF BDC = "XX"
   RETURN
ENDIF
IF BDC <> "  "
   SET COLOR TO &FC/&BC,R/W+,&BDC
ENDIF
SET CONFIRM OFF
SAVE ALL LIKE *C TO COLOR.MEM
CLEAR
RETURN
*EOF: COLOR.PRG


* Program.....: PACK.PRG
* Description.: Program to print/delete records of PCS'ing
personnel.
CLEAR
ANSWER = "Y"
DO WHILE ANSWER = "Y"
@ 1,0 to 3,79 DOUBLE
@ 2,5 SAY [SUPPLY TRAINING MANAGEMENT INFORMATION SYSTEM
DELETE FACILITY]
@ 7,17 SAY "ENTER LAST NAME OF INDIVIDUAL"
@ 5,10 TO 9,70 DOUBLE
LNAME = '                  '
@7,52 GET LNAME
READ
CLEAR
SET FORMAT TO PCS
EDIT FOR LAST_NAME=LNAME
SET FORMAT TO
CLEAR
@ 7,17 SAY "DELETE MORE   (Y/N) ? "
@ 5,10 TO 9,70 DOUBLE
@ 7,42 GET ANSWER
READ
CLEAR
ENDDO
CLEAR
@ 7,17 SAY "Updating database.  Please wait . . .."
PACK
CLEAR
RETURN
* EOF: PACK.PRG

* Program......: PCS.FMT
@ 1, 24  SAY "STMIS Record Deletion Facility"
@ 4,  6  SAY "Last Name"
@ 4, 16  GET  THESIS->LAST_NAME
```

```
@  4, 33   SAY "First Name"
@  4, 44   GET  THESIS->FIRST_NAME
@  4, 58   SAY "Pay Grade"
@  4, 68   GET  THESIS->PAY_GRADE  PICTURE "AXXXX"
@  7,  2   SAY "Social Security No."
@  7, 22   GET  THESIS->SSN  PICTURE "XXX-XX-XXXX"
@  7, 35   SAY "Office Symbol"
@  7, 49   GET  THESIS->OFF_SYM
@  7, 63   SAY "Duty Phone"
@  7, 74   GET  THESIS->DUTY_PHONE
@ 10,  4   SAY "IF THIS IS THE RECORD YOU ARE        IF
THIS IS NOT THE RECORD YOU"
@ 11,  9   SAY "LOOKING TO DELETE:                   ARE
LOOKING TO DELETE:"
@ 14,  4   SAY "Hold the Control (Ctrl) key down     Press
Page Down (Pg Dn) to view"
@ 16,  4   SAY "and Press the letter U.  Then,       other
records with the same last"
@ 18,  4   SAY "Press Page Down to continue.
name."
@  0,  0   TO  8, 79      DOUBLE
@  0,  0   TO  2, 79      DOUBLE
@  0,  0   TO  8, 79      DOUBLE
@  8,  0   TO  8, 79
@  0,  0   TO  8, 79      DOUBLE
@  9,  1   TO 19, 78
@  9, 39   TO 19, 40
@ 12,  3   TO 12, 36
@ 12, 43   TO 12, 75
* EOF: PCS.FMT


* Program.....: BACKUP.PRG
* Description.: Allows user to backup database files on
floppy
*                   diskette.
CLEAR
TEXT

                Insert Formatted Floppy Disk in Drive A:

                    and Press RETURN to Continue.
ENDTEXT
@5,18 TO 11,60 DOUBLE
WAIT " "
CLEAR
TEXT

                    Backing up Database File .....
                    Store Backup Disk in a Safe Place.
ENDTEXT
@5,20 TO 11,60 DOUBLE
SET SAFETY OFF
CLOSE DATABASES
```

```
COPY FILE THESIS.DBF TO A:BKSTMIS.DBF
COPY FILE COLOR.MEM TO A:BKCOLOR.MEM
COPY FILE MNAMES.MEM TO A:BKMNAMES.MEM
COPY FILE BLDG.MEM TO A:BKBLDG.MEM
COPY FILE ANFREQ.MEM TO A:BKANFREQ.MEM
COPY FILE MIFREQ.MEM TO A:BKMIFREQ.MEM
SET SAFETY ON
WAIT "                    Press any key to EXIT ......"
* EOF: BACKUP.PRG
```

```
* Program.....: BSCT.PRG
* Description.: Program module for Base Supply Customer
Training.
SET SCOREBOARD OFF
SET HEADINGS OFF
SET TALK OFF
SET BELL OFF
SET STATUS OFF
SET ESCAPE OFF
SET CONFIRM Off
USE THESIS INDEX LASTNAME
DO WHILE .T.
    * ---Display menu options. centered on the screen.
    *     draw menu border and print heading
    CLEAR
    @ 2, 0 TO 16.79 DOUBLE
    @ 3, 3 SAY [BASE SUPPLY CUSTOMER TRAINING MODULE]
    @ 3,53 SAY CDOW(DATE())+", "+CMONTH(DATE())+"
"+LTRIM(STR(DAY(DATE()),2))+", "+LTRIM(STR(YEAR(DATE()),4))
    @ 4,1 TO 4,78 DOUBLE
    * ---display detail lines
    @  6,10 SAY [1. MENU OPTION EXPLANATIONS]
    @  8,10 SAY [2. CREATE/EDIT RECORDS]
    @ 10,10 SAY [3. SEARCH DATABASE]
    @  6,45 SAY [4. MANAGEMENT REPORTS]
    @  8,45 SAY [5. SCHEDULE TRAINING]
    @ 10,45 SAY [6. MARK/PRINT NO-SHOWS]
    @ 12,30 SAY [0. EXIT TO MAIN MENU]
    @ 14,3 SAY [Last Update:]
    @ 15,4 SAY LUPDATE()
    selectnum=0
    @ 14,27 SAY "Please Enter Your Choice"
    @ 14,54 GET selectnum PICTURE "9"
    READ
    CLEAR
    DO CASE
        CASE selectnum = 0
           CLEAR
           RETURN
        CASE selectnum = 1
           DO INFOBSCT.PRG
        CASE selectnum = 2
            DO EDITB.PRG
            REINDEX
        CASE selectnum = 3
            DO SEARCHB.PRG
        CASE selectnum = 4
           DO BSCTRPTS.PRG
        CASE selectnum = 5
```

66

```
          DO SCHED.PRG
       CASE selectnum = 6
          DO NOSHW.PRG
ENDCASE
ENDDO
RETURN
* EOF: BSCT.PRG
⌐
* Program.....: INFOBCST.PRG
* Description.: Text program describing the Base Supply
Customer
*                  Training Module and its use.
CLEAR
 @ 1,0 TO 3,79 DOUBLE
 @ 2,18 SAY [BASE SUPPLY CUSTOMER TRAINING MODULE]
 @ 4,2 SAY ' '
TEXT
     This module is used to track. schedule, and monitor
Base Supply Customer
  Training.  Upon reciept of the AF Form 2426, indicating an
organization
  wanting to schedule a person, or persons. for training.
the training monitor,
  after deciding on the date of the class, will input the
name and class date
  of the individual into the database via Menu Option 5.  A
confirmation notice
  listing all who are scheduled for that particular class
can then be produced.
  showing class. class date. building. and trainee's name.
and sent to the
  organization.  Prior to the class, the monitor can print
out an attendance
  roster for the trainee's to initial if present.  After the
class. the
  monitor, using the initialed attendance roster. can mark
the no-shows and
  print out a listing to send to the affected organization.
The training
  information for those that did attend does not have to
altered in any way
  because it was already input back when the monitor
scheduled them.

  Following is a brief explanation of each menu option and
what it does.
ENDTEXT
@ 1,0 TO 21,79 DOUBLE
WAIT
CLEAR
TEXT
   2.   CREATE/EDIT RECORDS - Allows the user to create new
```

67

or edit existing
        records for individuals having supply training. This
option should be
        used only in special circumstances. Menu Option 5
should be used
        whenever possible.

    3. SEARCH DATABASE - Allows the user to search the
active database for
        specific records and training data.

    4. MANAGEMENT REPORTS - Used to produce listings
involving Supply
        training. (ex. Attendance rosters. Annual Training
Summary. Training
        confirmation notices. Equipment Management Report).

    5. SCHEDULE TRAINING - Used upon reciept of AF Form
2426, or other form
        of notification. This option allows the user to
input the individuals
        in the database at the time of scheduling, and allows
the production
        of attendance rosters and no-show listings.

    6. MARK/PRINT NO-SHOWS - Used after training classes to
mark no-shows.
        print no-show listing, and delete "scheduled training
dates" from the
        database for those individuals who didn't show up.
Entry of Block III
        test scores is also provided with this option.
ENDTEXT
@ 0,0 TO 22.79 DOUBLE
wait
CLEAR
RETURN
* EOF: INFOBSCT.PRG

* Program.....: EDITB.PRG
* Description.: Allows editing of the Base Supply Customer
*   Data.
REPE = "Y"
DO WHILE REPE < > "N"
CLEAR
@ 1,0 to 3,79 DOUBLE
@ 2,10 SAY [SUPPLY TRAINING CREATE/EDIT FACILITY]
@ 2,60 SAY DATE()
@ 7,17 SAY "ENTER LAST NAME OF INDIVIDUAL"
@ 5,10 TO 9,70 DOUBLE
LNAME = '   '
@7,52 GET LNAME

```
READ
COUNT FOR LAST_NAME = LNAME TO FOUND
IF FOUND = 0
    WAIT "No Records Exist for that Last Name.  Press Any
Key to Enter :

New Information."
    SET FORMAT TO ADDSCHED
    APPEND BLANK
    EDIT FOR LAST_NAME = "          "
    DELETE FOR LAST_NAME = "          "
    SET FORMAT TO
ELSE
    SET FORMAT TO SCHDSCRN
    EDIT FOR LAST_NAME = LNAME
    SET FORMAT TO
    CLEAR
@ 9,9 TO 13,71 DOUBLE
@ 10,19 SAY "That is all the Records with that Last Name"
@ 11,18 SAY "Did You Find the Record You Were Looking For ?"
@ 12,37 SAY "(Y/N)"
ANSWER = ' '
@ 12,42 GET ANSWER
READ
IF ANSWER = 'N'
    SET FORMAT TO ADDSCHED
    @ 15,10 SAY "  "
    WAIT "          Press Any Key When Ready to Create the
New Record . . ."
    APPEND BLANK
    EDIT FOR LAST_NAME = "          "
    DELETE FOR LAST_NAME = "          "
    SET FORMAT TO
    CLEAR
ENDIF
ENDIF
CLEAR
@ 3,13 TO 7,67 DOUBLE
@ 5,16 SAY "DO YOU WANT TO CREATE/EDIT MORE RECORDS (Y/N) ?"
REPE = ' '
@ 5,64 GET REPE
READ
ENDDO
CLEAR
@ 7,17 SAY "Updating database.  Please wait . . ."
PACK
* EOF: EDITB.PRG

* Program.....: SEARCHB.PRG
* Description.: Allows the user to search the database
CLEAR
@ 1,0 to 3,79 DOUBLE
@ 2,10 SAY [SUPPLY TRAINING SEARCH FACILITY]
```

```
@ 2,60 SAY DATE()
@ 7,17 SAY "ENTER LAST NAME OF INDIVIDUAL"
@ 5,10 TO 9,70 DOUBLE
LNAME = '                    '
@7,52 GET LNAME
READ
COUNT FOR LAST_NAME = LNAME TO FOUND
IF FOUND = 0
CLEAR
@ 9,9 TO 11,71 DOUBLE
@ 10,20 SAY "No Records Exist for Last Name = "
@ 10.53 SAY LNAME
?
?
?

WAIT "                         Press any key to return to
menu."
ELSE
CLEAR
    SET FORMAT TO SEARCHB
    EDIT FOR LAST_NAME = LNAME
    SET FORMAT TO
    CLEAR
@ 9,9 TO 11,71 DOUBLE
@ 10,13 SAY "That is all the Records with Last Name = "
@ 10,54 SAY LNAME
?
?
?
WAIT "                         Press any key to return to
menu."
ENDIF
CLEAR
* EOF: SEARCHB.PRG


* Program....: SEARCHB.FMT
@  1, 22   SAY "Base Supply Customer Training Record"
@  4,  6   SAY "Last Name"
@  4, 16   GET   THESIS->LAST_NAME
@  4, 33   SAY "First Name"
@  4, 44   GET   THESIS->FIRST_NAME
@  4, 58   SAY "Pay Grade"
@  4, 68   GET   THESIS->PAY_GRADE  PICTURE "AXXXX"
@  7,  2   SAY "Social Security No."
@  7, 22   GET   THESIS->SSN  PICTURE "XXX-XX-XXXX"
@  7, 35   SAY "Office Symbol"
@  7, 49   GET   THESIS->OFF_SYM
@  7, 63   SAY "Duty Phone"
@  7, 74   GET   THESIS->DUTY_PHONE
@  9, 26   SAY "Training Dates (MM/DD/YY)"
```

```
@ 12. 16   SAY "BLOCK I           BLOCK IIA           BLOCK IIB"
@ 13. 16   GET   THESIS->BLOCKI
@ 13. 33   GET   THESIS->BLOCKIIA
@ 13. 51   GET   THESIS->BLOCKIIB
@ 16. 10   SAY "ACCT          BLOCK III        Test Score
BLOCK IV"
@ 17. 10   GET   THESIS->ACCT   PICTURE "999XX"
@ 17. 21   GET   THESIS->BLOCKIII
@ 17. 41   GET   THESIS->TESTSCORE
@ 17. 56   GET   THESIS->BLOCKIV
@ 19. 12   SAY "Press Page Down to see other records with
same Last Name."
@ 20. 20   SAY "Press ESCAPE to exit search facility."
@ 0.  0    TO 21. 79       DOUBLE
@ 0.  0    TO  2. 79       DOUBLE
@ 0.  0    TO 21. 79       DOUBLE
@ 8.  0    TO 10. 79
@ 0.  0    TO 21. 79       DOUBLE
@ 18. 1    TO 18. 78
* EOF: SEARCHB.FMT

* Program.....: BSCTRPTS.PRG
* Description.. Reports program for BSCT Module.
CLEAR
DO WHILE .T.
@ 1,0 TO 3,79 DOUBLE
@ 2.8 SAY [SUPPLY CUSTOMER TRAINING MANAGEMENT REPORTS
FACILITY]
@ 2.70 SAY DATE()
@ 1,0 TO 13,79 DOUBLE
@ 5.5 SAY [1. EXPLANATION OF REPORTS]
@ 7.5 SAY [2. CLASS ATTENDANCE ROSTER]
@ 9.5 SAY [3. ANNUAL TRAINING REPORT ]
@ 5,45 SAY [4. SCHEDULE CONFIRMATION NOTICE]
@ 7,45 SAY [5. EQUIPMENT MANAGEMENT REPORT]
@ 9,45 SAY [0. RETURN TO PREVIOUS MENU]
@ 11,30 SAY "SELECT A NUMBER"
SELECTNUM = 0
@ 11,46 GET SELECTNUM PICTURE "9"
READ
CLEAR
IF SELECTNUM = 0
   RETURN
ENDIF
IF SELECTNUM = 1
   CLEAR
   DO INFOSTRP
ENDIF
IF SELECTNUM = 2
   CLEAR
   DO ATTNDROS
ENDIF
```

```
IF SELECTNUM = 3
   CLEAR
   DO MAJCOM
ENDIF
IF SELECTNUM = 4
   CLEAR
   DO CONFIRM
ENDIF
IF SELECTNUM = 5
   CLEAR
   DO EQMGMT
ENDIF
ENDDO
* EOF: BSCTRPTS.PRG

* Program.....: ATTNDROS.PRG
* Description.: Provides user with attendance rosters for
*              BSCT classes.
DO WHILE .T.
CLEAR
DTE = "          "
@ 1,0 TO 3,79 DOUBLE
@ 2,14 SAY [SUPPLY TRAINING ATTENDANCE ROSTER REPORTS
FACILITY]
@ 1,0 TO 17,79 DOUBLE
@ 5,10 SAY [1. BLOCK I TRAINING]
@ 7,10 SAY [2. BLOCK IIA TRAINING]
@ 9,10 SAY [3. BLOCK IIB TRAINING]
@ 5,50 SAY [4. BLOCK III TRAINING]
@ 7,50 SAY [5. BLOCK IV TRAINING]
@ 9,50 SAY [0. EXIT REPORTS MENU]
@ 11,27 SAY "SELECT THE TRAINING BLOCK"
SELECTNUM = 0
@ 11,56 GET SELECTNUM PICTURE "9"
READ
IF SELECTNUM = 0
   CLEAR
   RETURN
ENDIF
@ 13,20 SAY "ENTER THE CLASS DATE (MM/DD/YY)  " GET DTE
PICTURE "99/99/99"
READ
DTE = CTOD(DTE)
PR = "N"
CLEAR
@ 9,15 TO 13,65 DOUBLE
@ 11,17 SAY "DO YOU WANT THIS SENT TO THE PRINTER (Y/N) ? "
@ 11,63 GET PR PICTURE "N"
READ
IF PR = "Y"
   CLEAR
   @ 5,20 SAY "MAKE SURE PRINTER IS ON-LINE AND READY . . . ."
```

```
?
WAIT "                                        PRESS ANY KEY TO PRINT '
SET PRINT ON
ELSE
  CLEAR
  @ 5.20 SAY "USE CTRL-S TO STOP/START SCROLLING SCREEN "
  ?
  WAIT "                                        PRESS ANY KEY TO BEGIN "
  CLEAR
ENDIF
IF SELECTNUM = 1
? "*** BLOCK I - General Supply Indoctrination ***
Class Date is ".DTE
?
? "                              ATTENDANCE ROSTER"
?
? "Initials          Name                           Grade   Off/Sym"
?
GO TOP
DO WHILE .NOT. EOF()
IF BLOCKI = DTE
? "_____      "+"        "+FIRST_NAME+" "+LAST_NAME+PAY_GRADE+"
"+OFF_SYM
?
ENDIF
SKIP
ENDDO
SET PRINT OFF
WAIT
ENDIF
IF SELECTNUM = 2
? "*** BLOCK IIA - Bench Stock Management ***          Class
Date is ".DTE
?
? "                              ATTENDANCE ROSTER"
?
? "Initials          Name                           Grade   Off/Sym"
?
GO TOP
DO WHILE .NOT. EOF()
IF BLOCKIIA = DTE
? "_____      "+"        "+FIRST_NAME+" "+LAST_NAME+PAY_GRADE+"
"+OFF_SYM
?
ENDIF
SKIP
ENDDO
SET PRINT OFF
WAIT
ENDIF
IF SELECTNUM - 3
? "*** BLOCK IIB - Repair Cycle Management ***          Class
```

```
Date is ".DTE
?
? "                              ATTENDANCE ROSTER"
?
? "Initials           Name                              Grade   Off/Sym"
?
GO TOP
DO WHILE .NOT. EOF()
IF BLOCKIIB = DTE
? "_____        "+"          "+FIRST_NAME+" "+LAST_NAME+PAY_GRADE+"
"+OFF_SYM
?
ENDIF
SKIP
ENDDO
SET PRINT OFF
WAIT
ENDIF
IF SELECTNUM = 4
? "*** BLOCK III - Equipment Management ***          Class
Date is ".DTE
?
? "                              ATTENDANCE ROSTER"
?
? "Initials           Name                              Grade   Off/Sym"
?
GO TOP
DO WHILE .NOT. EOF()
IF BLOCKIII = DTE
? "_____        "+"          "+FIRST_NAME+" "+LAST_NAME+PAY_GRADE+"
"+OFF_SYM
?
ENDIF
SKIP
ENDDO
SET PRINT OFF
WAIT
ENDIF
IF SELECTNUM = 5
? "*** BLOCK IV - War Reserve Materiel (WRM). War Readiness
Spares Kit"
? "                   (WRSK). and Mobility Management        Class
Date is ".DTE
?
? "                              ATTENDANCE ROSTER"
?
? "Initials           Name                              Grade   Off/Sym"
?
GO TOP
DO WHILE .NOT. EOF()
IF BLOCKIV = DTE
? "_____        "+"          "+FIRST_NAME+" "+LAST_NAME+PAY_GRADE+"
```

```
"+OFF_SYM
?
ENDIF
SKIP
ENDDO
SET PRINT OFF
WAIT
ENDIF
ENDDO
* EOF: ATTNDROS.PRG

* Program.....: INFOSTRP.PRG
* Description.: Text program describing the reports provided
by the
*              Base Supply Training Module.
CLEAR
 @ 1.0 TO 3.79 DOUBLE
 @ 2.23 SAY [BASE SUPPLY CUSTOMER TRAINING MODULE]
 @ 4.2 SAY ' '
TEXT
   2.   CLASS ATTENDANCE ROSTER - Prints a roster for any
class on any date.
        Although. its primary use is to print out an
attendance roster prior to
        a scheduled class for the attendees to initial. the
monitor can also
        print listings of attendance rosters for past classes.

   3.   ANNUAL MAJCOM TRAINING REPORT - This option provides
the calendar year
        training summary report specified in AFR 50-1.  The
report calculates the
        number of people trained--by category. the number of
training hours--by
        category. and provides the totals for each.

   4.   SCHEDULE CONFIRMATION NOTICE - This option prints a
roster of all
        personnel scheduled for any class. similar to the
attendance roster. This
        list can be sent to the affected organizations to
confirm training dates.
   5.   EQUIPMENT MANAGEMENT REPORT - Provides a listing of
all personnel
        trained in Block III and their organizational account.
(In Acct Order).
ENDTEXT
@ 1.0 TO 21.79 DOUBLE
wait
CLEAR
RETURN
* EOF: INFOSTRP.PRG
```

```
* Program.....: MAJCOM.PRG
* Description.: Calculates and Prints the Annual Training
Summary
* Initialize Class Time Variables
CY = 0
BIT = 0
BIIAT = 0
BIIBT = 0
BIIIT = 0
BIVT = 0
CLEAR
@ 1.0 TO 3.79 DOUBLE
@ 2.8 SAY "ANNUAL MAJCOM TRAINING REPORT"
@ 1.0 TO 17.79 DOUBLE
@ 5.6 SAY "ENTER THE REPORT YEAR (ex. 1989) " GET CY PICTURE
"9999"
READ
@ 7.6 SAY "ENTER YOUR AVERAGE BLOCK I CLASS TIME IN HOURS
(ex. 2.5) " GET BIT
PICTURE "99.9"
READ
@ 9.6 SAY "ENTER YOUR AVERAGE BLOCK IIA CLASS TIME IN HOURS

  " GET BIIAT PICTURE "99.9"
READ
@ 11.6 SAY "ENTER YOUR AVERAGE BLOCK IIB CLASS TIME IN HOURS

  " GET BIIBT PICTURE "99.9"
READ
@ 13.6 SAY "ENTER YOUR AVERAGE BLOCK III CLASS TIME IN HOURS

  " GET BIIIT PICTURE "99.9"
READ
@ 15.6 SAY "ENTER YOUR AVERAGE BLOCK IV CLASS TIME IN HOURS

  " GET BIVT PICTURE "99.9"
READ
CLEAR
TEXT
                    Please wait while your annual MAJCOM
                       Report is being calculated . . .
ENDTEXT
* Calculations begin
COUNT FOR PAY_GRADE = "O" .AND. YEAR(BLOCKI) = CY TO OBI
COUNT FOR PAY_GRADE = "E" .AND. YEAR(BLOCKI) = CY TO EBI
COUNT FOR YEAR(BLOCKI) = CY TO CBI
CBI = CBI - (OBI+EBI)
COUNT FOR PAY_GRADE = "O" .AND. YEAR(BLOCKIIA) = CY TO OBIIA
COUNT FOR PAY_GRADE = "E" .AND. YEAR(BLOCKIIA) = CY TO EBIIA
COUNT FOR YEAR(BLOCKIIA) = CY TO CBIIA
CBIIA = CBIIA - (OBIIA+EBIIA)
COUNT FOR PAY_GRADE = "O" .AND. YEAR(BLOCKIIB) = CY TO OBIIB
```

```
COUNT FOR PAY_GRADE = "E" .AND. YEAR(BLOCKIIB) = CY TO EBIIB
COUNT FOR YEAR(BLOCKIIB) = CY TO CBIIB
CBIIB = CBIIB - (OBIIB+EBIIB)
COUNT FOR PAY_GRADE = "O" .AND. YEAR(BLOCKIII) = CY TO OBIII
COUNT FOR PAY_GRADE = "E" .AND. YEAR(BLOCKIII) = CY TO EBIII
COUNT FOR YEAR(BLOCKIII) = CY TO CBIII
CBIII = CBIII - (OBIII+EBIII)
COUNT FOR PAY_GRADE = "O" .AND. YEAR(BLOCKIV) = CY TO OBIV
COUNT FOR PAY_GRADE = "E" .AND. YEAR(BLOCKIV) = CY TO EBIV
COUNT FOR YEAR(BLOCKIV) = CY TO CBIV
CBIV = CBIV - (OBIV+EBIV)
OBIT=OBI*BIT
EBIT=EBI*BIT
CBIT=CBI*BIT
OBIIAT=OBIIA*BIIAT
EBIIAT=EBIIA*BIIAT
CBIIAT=CBIIA*BIIAT
OBIIBT=OBIIB*BIIBT
EBIIBT=EBIIB*BIIBT
CBIIBT=CBIIB*BIIBT
OBIIIT=OBIII*BIIIT
EBIIIT=EBIII*BIIIT
CBIIIT=CBIII*BIIIT
OBIVT=OBIV*BIVT
EBIVT=EBIV*BIVT
CBIVT=CBIV*BIVT
NOT = OBI+OBIIA+OBIIB+OBIII+OBIV
HOT = OBIT+OBIIAT+OBIIBT+OBIIIT+OBIVT
NET = EBI+EBIIA+EBIIB+EBIII+EBIV
HET = EBIT+EBIIAT+EBIIBT+EBIII+EBIVT
NCT = CBI+CBIIA+CBIIB+CBIII+CBIV
HCT = CBIT+CBIIAT+CBIIBT+CBIIIT+CBIVT
NIT = OBI+EBI+CBI
HIT = OBIT+EBIT+CBIT
NIIAT = OBIIA+EBIIA+CBIIA
HIIAT = OBIIAT+EBIIAT+CBIIAT
NIIBT = OBIIB+EBIIB+CBIIB
HIIBT = OBIIBT+EBIIBT+CBIIBT
NIIIT = OBIII+EBIII+CBIII
HIIIT = OBIIIT+EBIIIT+CBIIIT
NIVT = OBIV+EBIV+CBIV
HIVT = OBIVT+EBIVT+CBIVT
GTN = NIT+NIIAT+NIIBT+NIIIT+NIVT
GTH = HIT+HIIAT+HIIBT+HIIIT+HIVT
CLEAR
DO MRPT.PRG
RETURN
* EOF: MAJCOM.PRG

* Program.....: MRPT.PRG
* Description.: Printout Format for Annual Training Summary
@  1, 22  SAY "Annual Supply Training Summary     CY "
```

```
@ 1, 62 SAY CY
@ 3, 2 SAY "Category    Block I    Block IIA    Block IIB
Block III    Block IV    Total"
@ 5,2  SAY "# Officers"
@ 5,16 SAY OBI PICTURE "9999"
@ 5,27 SAY OBIIA PICTURE "9999"
@ 5,39 SAY OBIIB PICTURE "9999"
@ 5,52 SAY OBIII PICTURE "9999"
@ 5,64 SAY OBIV PICTURE "9999"
@ 5,74 SAY NOT PICTURE "9999"
@ 7,2  SAY "Off Hours"
@ 7,15 SAY OBIT PICTURE "9999.9"
@ 7,26 SAY CBIIAT PICTURE "9999.9"
@ 7,38 SAY OBIIBT PICTURE "9999.9"
@ 7,51 SAY OBIIIT PICTURE "9999.9"
@ 7,63 SAY OBIVT PICTURE "9999.9"
@ 7,73 SAY HOT PICTURE "9999.0"
@ 9,2  SAY "# Enlisted"
@ 9,16 SAY EBI PICTURE "9999"
@ 9,27 SAY EBIIA PICTURE "9999"
@ 9,39 SAY EBIIB PICTURE "9999"
@ 9,52 SAY EBIII PICTURE "9999"
@ 9,64 SAY EBIV PICTURE "9999"
@ 9,74 SAY NET PICTURE "9999"
@ 11,2 SAY "Enl Hours"
@ 11,15 SAY EBIT PICTURE "9999.9"
@ 11,26 SAY EBIIAT PICTURE "9999.9"
@ 11,38 SAY EBIIBT PICTURE "9999.9"
@ 11,51 SAY EBIIIT PICTURE "9999.9"
@ 11,63 SAY EBIVT PICTURE "9999.9"
@ 11,73 SAY HET PICTURE "9999.9"
@ 13,2  SAY "# Civilian"
@ 13,16 SAY CBI PICTURE "9999"
@ 13,27 SAY CBIIA PICTURE "9999"
@ 13,39 SAY CBIIB PICTURE "9999"
@ 13,52 SAY CBIII PICTURE "9999"
@ 13,64 SAY CBIV PICTURE "9999"
@ 13,74 SAY NCT PICTURE "9999"
@ 15,2  SAY "Civ Hours"
@ 15,15 SAY CBIT PICTURE "9999.9"
@ 15,26 SAY CBIIAT PICTURE "9999.9"
@ 15,38 SAY CBIIBT PICTURE "9999.9"
@ 15,51 SAY CBIIIT PICTURE "9999.9"
@ 15,63 SAY CBIVT PICTURE "9999.9"
@ 15,73 SAY HCT PICTURE "9999.9"
@ 17, 2 SAY "Total #"
@ 17,16 SAY NIT PICTURE "9999"
@ 17,27 SAY NIIAT PICTURE "9999"
@ 17,39 SAY NIIBT PICTURE "9999"
@ 17,52 SAY NIIIT PICTURE "9999"
@ 17,64 SAY NIVT PICTURE "9999"
@ 17,74 SAY GTN PICTURE "9999"
```

```
@ 19, 2 SAY "Tot Hours"
@ 19.15 SAY HIT PICTURE "9999.9"
@ 19.26 SAY HIIAT PICTURE "9999.9"
@ 19.38 SAY HIIBT PICTURE "9999.9"
@ 19,51 SAY HIIIT PICTURE "9999.9"
@ 19.63 SAY HIVT PICTURE "9999.9"
@ 19.73 SAY GTH PICTURE "9999.9"
@  0,  0 TO  2, 79     DOUBLE
@  0,  0 TO 20, 79     DOUBLE
@  3, 12 TO 19, 12
@  4,  1 TO  4, 78
@  6,  1 TO  6, 78
@  8,  1 TO  8, 78     DOUBLE
@ 10,  1 TO 10, 78
@ 12,  1 TO 12, 78     DOUBLE
@ 14,  1 TO 14, 78
@ 16,  1 TO 16, 78     DOUBLE
@ 18,  1 TO 18, 78
@  2,  1 TO  2, 78
@  4,  1 TO  4, 78     DOUBLE
@  3, 12 TO 19, 12
@  3, 22 TO 19, 22
@  3, 34 TO 19, 34
@  3, 46 TO 19, 46
@  3, 58 TO 19, 58
@  3, 70 TO 19, 70     DOUBLE
?
?
WAIT "         Press Shift-PrtSc for Hard Copy.  Otherwise,
Press Return ..."
CLEAR
RETURN
* EOF: MRPT.PRG

* Program.....: NOSHW.PRG
* Description.: Allows user to mark no-shows and print
listing
DO WHILE .T.
  TS = 0
  K=0
  CLEAR
  DTE = "          "
  @ 1,0 TO 3,79 DOUBLE
  @ 2,24 SAY [SUPPLY TRAINING NO-SHOW FACILITY]
  @ 1,0 TO 17,79 DOUBLE
  @ 5,10 SAY [1. BLOCK I TRAINING]
  @ 7,10 SAY [2. BLOCK IIA TRAINING]
  @ 9,10 SAY [3. BLOCK IIB TRAINING]
  @ 5,50 SAY [4. BLOCK III TRAINING]
  @ 7,50 SAY [5. BLOCK IV TRAINING]
  @ 9,50 SAY [0. EXIT REPORTS MENU]
  @ 11,27 SAY "SELECT THE TRAINING BLOCK"
```

```
   SELECTNUM = 0
   @ 11.56 GET SELECTNUM PICTURE "9"
   READ
     IF SELECTNUM = 0
       CLEAR
       RETURN
     ENDIF
   @ 13,20 SAY "ENTER THE CLASS DATE (MM/DD/YY)  " GET DTE
PICTURE "99/99/99"
   READ
   DTE = CTOD(DTE)
   CLEAR
   TC = "          "
   GO TOP
     DO WHILE .NOT. EOF()
       IF SELECTNUM = 1
         TC = "BLOCK I - General Supply Indoctrination"
         CD = BLOCKI
       ENDIF
       IF SELECTNUM = 2
         TC = "BLOCK IIA - Bench Stock Management"
         CD = BLOCKIIA
       ENDIF
       IF SELECTNUM = 3
         TC = "BLOCK IIB - Repair Cycle Management"
         CD = BLOCKIIB
       ENDIF
       IF SELECTNUM = 4
         TC = "BLOCK III - Equipment Management"
         CD = BLOCKIII
       ENDIF
       IF SELECTNUM = 5
         TC = "BLOCK IV - WRM, WRSK, and Mobility Management"
         CD = BLOCKIV
       ENDIF
       IF CD = DTE
         @ 5,5 SAY LAST_NAME
         @ 5,16 SAY FIRST_NAME
         @ 5,25 SAY PAY_GRADE
         @ 4,3 TO 6,76 DOUBLE
         DEAD = "N"
         @ 5,40 SAY "WAS THIS INDIVIDUAL A NO-SHOW ?"
         @ 5,70 GET DEAD PICTURE "Y"
         READ
           IF DEAD = "Y"
             K = K + 1
             REPLACE NOSHOW WITH .T.
           ENDIF
           IF SELECTNUM = 4 .AND. DEAD = "N"
               @ 8,20 SAY "ENTER BLOCK III TEST SCORE (0 -
100%) "
               @ 8,60 GET TS PICTURE "999"
```

```
                  READ
                  REPLACE TESTSCORE WITH TS
             ENDIF
        ENDIF
        SKIP
     ENDDO
IF K > 0
PR = "N"
CLEAR
@ 9,15 TO 13.65 DOUBLE
@ 11.17 SAY "DO YOU WANT THIS SENT TO THE PRINTER (Y/N) ? "
@ 11,63 GET PR PICTURE "N"
READ
IF PR = "Y"
   CLEAR
   @ 5.20 SAY "MAKE SURE PRINTER IS ON-LINE AND READY . . ."
   ?
   WAIT "                          PRESS ANY KEY TO PRINT "
   SET PRINT ON
ELSE
   CLEAR
   @ 5.20 SAY "USE CTRL-S TO STOP/START SCROLLING SCREEN "
   ?
   WAIT "                          PRESS ANY KEY TO BEGIN "
   CLEAR
ENDIF
   ? TC+"            Class Date "+DTOC(DTE)
   ?
   ? "                              NO-SHOW LISTING"
   ?
   ?
   ? "Name                         Grade     Off/Sym"
   ?
   GO TOP
     DO WHILE .NOT. EOF()
       IF SELECTNUM - 1
         CD = BLOCKI
       ENDIF
       IF SELECTNUM = 2
         CD = BLOCKIIA
       ENDIF
       IF SELECTNUM = 3
         CD = BLOCKIIB
       ENDIF
       IF SELECTNUM - 4
         CD - BLOCKIII
       ENDIF
       IF SELECTNUM - 5
         CD - BLOCKIV
       ENDIF
       IF CD - DTE .AND. NOSHOW
         ? FIRST_NAME+" "+LAST_NAME+PAY_GRADE+"      "+OFF_SYM
```

```
        ?
      ENDIF
    SKIP
    ENDDO
WAIT
ENDIF
SET PRINT OFF
IF SELECTNUM = 1
  REPLACE ALL BLOCKI WITH CTOD("            ") FOR BLOCKI = DTE
.AND. NOSHOW
ENDIF
IF SELECTNUM = 2
  REPLACE ALL BLOCKIIA WITH CTOD("           ") FOR BLOCKIIA =
DTE .AND. NOSHOW
ENDIF
IF SELECTNUM = 3
  REPLACE ALL BLOCKIIB WITH CTOD("           ") FOR BLOCKIIB =
DTE .AND. NOSHOW
ENDIF
IF SELECTNUM = 4
  REPLACE ALL BLOCKIII WITH CTOD("           ") FOR BLOCKIII =
DTE .AND. NOSHOW
ENDIF
IF SELECTNUM = 5
  REPLACE ALL BLOCKIV WITH CTOD("           ") FOR BLOCKIV =
DTE .AND. NOSHOW
ENDIF
REPLACE ALL NOSHOW WITH .F.
ENDDO
* EOF: NOSHW.PRG

* Program.....: SCHED.PRG
* Description.: Scheduling Facility for BSCT
REPE = "Y"
DO WHILE REPE <> "N"
CLEAR
@ 1,0 to 3,79 DOUBLE
@ 2,10 SAY [SUPPLY TRAINING SCHEDULING FACILITY]
@ 2,60 SAY DATE()
@ 7,17 SAY "ENTER LAST NAME OF INDIVIDUAL"
@ 5,10 TO 9,70 DOUBLE
LNAME = '               '
@7,52 GET LNAME
READ
COUNT FOR LAST_NAME = LNAME TO FOUND
IF FOUND = 0
    WAIT "No Records Exist for that Last Name.  Press Any
Key to Enter
New Information."
    SET FORMAT TO ADDSCHED
    APPEND BLANK
    EDIT FOR LAST_NAME = "             "
```

```
      DELETE FOR LAST_NAME = "               "
      SET FORMAT TO
ELSE
      SET FORMAT TO SCHDSCRN
      EDIT FOR LAST_NAME = LNAME
      SET FORMAT TO
      CLEAR
@ 9,9 TO 13,71 DOUBLE
@ 10,19 SAY "That is all the Records with that Last Name"
@ 11,18 SAY "Did You Find the Record You Were Looking For ?"
@ 12,37 SAY "(Y/N)"
ANSWER = ' '
@ 12,42 GET ANSWER
READ
IF ANSWER = 'N'
      SET FORMAT TO ADDSCHED
      @ 15,10 SAY "    "
      WAIT "         Press Any Key When Ready to Enter the New
Information . . ."
      APPEND BLANK
      EDIT FOR LAST_NAME = "            "
      DELETE FOR LAST_NAME = "            "
      SET FORMAT TO
      CLEAR
ENDIF
ENDIF
CLEAR
@ 3,16 TO 7,64 DOUBLE
@ 5,18 SAY "DO YOU WANT TO SCHEDULE MORE PEOPLE (Y/N) ?"
REPE = ' '
@ 5,62 GET REPE
READ
ENDDO
CLEAR
@ 7,17 SAY "Updating database.  Please wait . . ."
PACK
* EOF: SCHED.PRG

* Program.....: EQMGMT.PRG
* Description.: Provides a report of Block III trainees and
*              their organizational account codes.
CLEAR
USE THESIS INDEX ACCT
REINDEX
PR = "N"
CLEAR
@ 9,15 TO 13,65 DOUBLE
@ 11,17 SAY "DO YOU WANT THIS SENT TO THE PRINTER (Y/N) ? "
@ 11,63 GET PR PICTURE "N"
READ
IF PR = "Y"
   CLEAR
```

```
@ 5.20 SAY "MAKE SURE PRINTER IS ON-LINE AND READY . . ."
?
WAIT "                                 PRESS ANY KEY TO PRINT "
SET PRINT ON
ELSE
  CLEAR
  @ 5.20 SAY "USE CTRL-S TO STOP/START SCROLLING SCREEN "
  ?
  WAIT "                                 PRESS ANY KEY TO BEGIN "
  CLEAR
ENDIF
GO TOP
? "                       EQUIPMENT MANAGEMENT REPORT
As of ".DATE()
?
?
?
? "Acct          Name                              Grade
Block III"
?
 DO WHILE .NOT. EOF()
    IF BLOCKIII < DATE()
       ? ACCT."      ".LAST_NAME."  ".FIRST_NAME."
".PAY_GRADE."   ".BLOCKIII
       ?
    ENDIF
 SKIP
 ENDDO
SET PRINT OFF
WAIT
USE THESIS INDEX LASTNAME
CLEAR
RETURN
* EOF: EQMGMT.PRG


* Program.....: CONFIRM.PRG
* Description.: Provides user with confirmation roster to
send
*              out to organizations.
DO WHILE .T.
CLEAR
DTE = "          "
@ 1.0 TO 3.79 DOUBLE
@ 2.14 SAY [SUPPLY TRAINING CONFIRMATION ROSTER REPORTS
FACILITY]
@ 1.0 TO 17.79 DOUBLE
@ 5.10 SAY [1. BLOCK I TRAINING]
@ 7.10 SAY [2. BLOCK IIA TRAINING]
@ 9.10 SAY [3. BLOCK IIB TRAINING]
@ 5.50 SAY [4. BLOCK III TRAINING]
@ 7.50 SAY [5. BLOCK IV TRAINING]
@ 9.50 SAY [0. EXIT REPORTS MENU]
```

```
SKIP
ENDDO
SET PRINT OFF
WAIT
ENDIF
IF SELECTNUM = 2
? "*** BLOCK IIA - Bench Stock Management ***          Class
Date is ",DTE
? "
Building ",bldg
?
? "                         CONFIRMATION ROSTER"
?
? "Name                         Grade     Off/Sym"
?
GO TOP
DO WHILE .NOT. EOF()
IF BLOCKIIA = DTE
? FIRST_NAME+" "+LAST_NAME+PAY_GRADE+"       "+OFF_SYM
?
ENDIF
SKIP
ENDDO
SET PRINT OFF
WAIT
ENDIF
IF SELECTNUM = 3
? "*** BLOCK IIB - Repair Cycle Management ***          Class
Date is ",DTE
? "
Building ",bldg
?
? "                         CONFIRMATION ROSTER"
?
? "Name                         Grade     Off/Sym"
?
GO TOP
DO WHILE .NOT. EOF()
IF BLOCKIIB = DTE
? FIRST_NAME+" "+LAST_NAME+PAY_GRADE+"       "+OFF_SYM
?
ENDIF
SKIP
ENDDO
SET PRINT OFF
WAIT
ENDIF
IF SELECTNUM = 4
? "*** BLOCK III - Equipment Management ***          Class
Date is ",DTE
? "
Building ",bldg
```

```
@ 11.27 SAY "SELECT THE TRAINING BLOCK"
SELECTNUM = 0
@ 11.56 GET SELECTNUM PICTURE "9"
READ
IF SELECTNUM = 0
    CLEAR
    USE THESIS INDEX LASTNAME
    RETURN
ENDIF
@ 13.20 SAY "ENTER THE CLASS DATE (MM/DD/YY)  " GET DTE
PICTURE "99/99/99"
READ
DTE = CTOD(DTE)
CLEAR
RESTORE FROM BLDG.MEM ADDITIVE
PR = "N"
CLEAR
@ 9.15 TO 13.65 DOUBLE
@ 11.17 SAY "DO YOU WANT THIS SENT TO THE PRINTER (Y/N) ? "
@ 11.63 GET PR PICTURE "N"
READ
IF PR = "Y"
   CLEAR
   @ 5.20 SAY "MAKE SURE PRINTER IS ON-LINE AND READY .    ."
   ?
   WAIT "                              PRESS ANY KEY TO PRINT "
   SET PRINT ON
ELSE
   CLEAR
   @ 5.20 SAY "USE CTRL-S TO STOP/START SCROLLING SCREEN "
   ?
   WAIT "                              PRESS ANY KEY TO BEGIN "
   CLEAR
ENDIF
USE THESIS INDEX ORG
REINDEX
IF SELECTNUM = 1
? "*** BLOCK I - General Supply Indoctrination ***
Class Date is ".DTE
? "
Building ".bldg
?
? "                          CONFIRMATION ROSTER"
?
? "Name                          Grade     Off/Sym"
?
GO TOP
DO WHILE .NOT. EOF()
IF BLOCKI = DTE
? FIRST_NAME+" "+LAST_NAME+PAY_GRADE+"      "+OFF_SYM
?
ENDIF
```

```
?
?  "                              CONFIRMATION ROSTER"
?
? "Name                             Grade      Off/Sym"
?
GO TOP
DO WHILE .NOT. EOF()
IF BLOCKIII = DTE
? FIRST_NAME+" "+LAST_NAME+PAY_GRADE+"        "+OFF_SYM
?
ENDIF
SKIP
ENDDO
SET PRINT OFF
WAIT
ENDIF
IF SELECTNUM = 5
? "*** BLOCK IV - War Reserve Materiel (WRM), War Readiness
Spares Kit"
? "                   (WRSK), and Mobility Management        Class
Date is ",DTE
? "
Building ",bldg
?
?  "                          CONFIRMATION ROSTER"
?
? "Name                             Grade      Off/Sym"
?
GO TOP
DO WHILE .NOT. EOF()
IF BLOCKIV = DTE
? FIRST_NAME+" "+LAST_NAME+PAY_GRADE+"        "+OFF_SYM
?
ENDIF
SKIP
ENDDO
SET PRINT OFF
WAIT
ENDIF
ENDDO
* EOF: CONFIRM.PRG

* Program....:ADDSCHED.FMT
@  1, 22  SAY "Base Supply Customer Training Record"
@  4,  6  SAY "Last Name"
@  4, 16  GET  THESIS->LAST_NAME
@  4, 33  SAY "First Name"
@  4, 44  GET  THESIS->FIRST_NAME
@  4, 58  SAY "Pay Grade"
@  4, 68  GET  THESIS->PAY_GRADE  PICTURE "AXXXX"
@  7,  2  SAY "Social Security No."
@  7, 22  GET  THESIS->SSN  PICTURE "XXX-XX-XXXX"
```

```
@  7. 35  SAY "Office Symbol"
@  7. 49  GET  THESIS->OFF_SYM
@  7. 63  SAY "Duty Phone"
@  7. 74  GET  THESIS->DUTY_PHONE
@  9. 26  SAY "Training Dates (MM/DD/YY)"
@ 12. 17  SAY "BLOCK I           BLOCK IIA            BLOCK IIB"
@ 13. 17  GET  THESIS->BLOCKI
@ 13. 34  GET  THESIS->BLOCKIIA
@ 13. 51  GET  THESIS->BLOCKIIB
@ 16.  9  SAY "ACCT          BLOCK III         Test Score
BLOCK IV"
@ 17.  9  GET  THESIS->ACCT  PICTURE "999XX"
@ 17. 21  GET  THESIS->BLOCKIII
@ 17. 42  GET  THESIS->TESTSCORE
@ 17. 57  GET  THESIS->BLOCKIV
@ 19.  7  SAY "Press RETURN through remaining fields. or
press Ctrl-End when"
@ 20. 18  SAY "finished entering data to save record."
@  0.  0  TO 21. 79     DOUBLE
@  0.  0  TO  2. 79     DOUBLE
@  0.  0  TO 21. 79     DOUBLE
@  8.  0  TO 10. 79
@  0.  0  TO 21. 79     DOUBLE
@ 18.  1  TO 18. 78
* EOF: ADDSCHED.FMT

* Program....: SCHDSCRN.FMT
@  1. 22  SAY "Base Supply Customer Training Record"
@  4.  6  SAY "Last Name"
@  4. 16  GET  THESIS->LAST_NAME
@  4. 33  SAY "First Name"
@  4. 44  GET  THESIS->FIRST_NAME
@  4. 58  SAY "Pay Grade"
@  4. 68  GET  THESIS->PAY_GRADE  PICTURE "AXXXX"
@  7.  2  SAY "Social Security No."
@  7. 22  GET  THESIS->SSN  PICTURE "XXX-XX-XXXX"
@  7. 35  SAY "Office Symbol"
@  7. 49  GET  THESIS->OFF_SYM
@  7. 63  SAY "Duty Phone"
@  7. 74  GET  THESIS->DUTY_PHONE
@  9. 26  SAY "Training Dates (MM/DD/YY)"
@ 12. 16  SAY "BLOCK I           BLOCK IIA            BLOCK IIB"
@ 13. 16  GET  THESIS->BLOCKI
@ 13. 33  GET  THESIS->BLOCKIIA
@ 13. 51  GET  THESIS->BLOCKIIB
@ 16. 10  SAY "ACCT          BLOCK III         Test Score
BLOCK IV"
@ 17. 10  GET  THESIS->ACCT  PICTURE "999XX"
@ 17. 21  GET  THESIS->BLOCKIII
@ 17. 41  GET  THESIS->TESTSCORE
@ 17. 56  GET  THESIS->BLOCKIV
@ 19.  5  SAY "Press Page Down to see other records with
```

```
same Last Name. When correct"
@ 20.    4  SAY "record is found, enter scheduled date(s).
Press Ctrl-End to save record."
@  0.   0  TO 21. 79       DOUBLE
@  0.   0  TO  2. 79       DOUBLE
@  0.   0  TO 21. 79       DOUBLE
@  8.   0  TO 10. 79
@  0.   0  TO 21. 79       DOUBLE
@ 18.   1  TO 18. 78
* EOF: SCHDSCRN.FMT
```

Ancillary Training Module

```
* Program..: ANCIL.PRG
SET SCOREBOARD OFF
SET HEADINGS OFF
SET TALK OFF
SET BELL OFF
SET STATUS OFF
SET ESCAPE OFF
SET CONFIRM Off
USE THESIS INDEX LASTNAME
DO WHILE .T.
    * ---Display menu options, centered on the screen.
    *     draw menu border and print heading
    CLEAR
    @ 2, 0 TO 16,79 DOUBLE
    @ 3, 3 SAY [ANCILLARY TRAINING MODULE]
    @ 3,53 SAY CDOW(DATE())+", "+CMONTH(DATE())+"
"+LTRIM(STR(DAY(DATE()),2))+", "+LTRIM(STR(YEAR(DATE()),4))
    @ 4,1 TO 4,78 DOUBLE
    * ---display detail lines
    @  6,10 SAY [1. PROGRAM INFORMATION]
    @  8,10 SAY [2. CREATE/EDIT RECORDS]
    @ 10,10 SAY [3. SEARCH DATABASE]
    @  6,45 SAY [4. DEFINE/VIEW FREQUENCY]
    @  8,45 SAY [5. MANAGEMENT REPORTS]
    @ 10,45 SAY [6. MOBILITY REPORTS]
    @ 12,30 SAY [0. EXIT TO MAIN MENU]
    @ 14,3 SAY [Last Update:]
    @ 15,4 SAY LUPDATE()
    selectnum=0
    @ 14,27 SAY "Please Enter Your Choice"
    @ 14,54 GET selectnum PICTURE "9"
    READ
    CLEAR
    DO CASE
        CASE selectnum = 0
            CLEAR
            RETURN
        CASE selectnum = 1
            DO INFOANCI.PRG
        CASE selectnum = 2
            DO EDITA.PRG
            REINDEX
        CASE selectnum = 3
            DO SEARCHA.PRG
        CASE selectnum = 4
            DO ANCIFREQ.PRG
        CASE selectnum = 5
            DO ANCIRPTS.PRG
        CASE selectnum = 6
            DO MOBRPTS.PRG
```

```
ENDCASE
ENDDO
RETURN
* EOF: ANCIL.PRG

* Program.....: EDITA.PRG
* Description.: Allows editing of the Ancillary Training
*               Data.
REPE = "Y"
DO WHILE REPE <> "N"
CLEAR
@ 1,0 to 3,79 DOUBLE
@ 2,10 SAY [ANCILLARY TRAINING CREATE/EDIT FACILITY]
@ 2,60 SAY DATE()
@ 7,17 SAY "ENTER LAST NAME OF INDIVIDUAL"
@ 5,10 TO 9,70 DOUBLE
LNAME = '                 '
@7,52 GET LNAME
READ
COUNT FOR LAST_NAME = LNAME TO FOUND
IF FOUND = 0
    WAIT "No Records Exist for that Last Name.  Press Any
Key to Enter
New Information."
    SET FORMAT TO ANCISCRN
    APPEND BLANK
    EDIT FOR LAST_NAME = "          "
    DELETE FOR LAST_NAME = "          "
    SET FORMAT TO
ELSE
    SET FORMAT TO ANCIEDIT
    EDIT FOR LAST_NAME = LNAME
    SET FORMAT TO
    CLEAR
@ 9,9 TO 13,71 DOUBLE
@ 10,19 SAY "That is all the Records with that Last Name"
@ 11,18 SAY "Did You Find the Record You Were Looking For ?"
@ 12,37 SAY "(Y/N)"
ANSWER = ' '
@ 12,42 GET ANSWER
READ
IF ANSWER = 'N'
    SET FORMAT TO ANCISCRN
    @ 15,10 SAY "   "
    WAIT "          Press Any Key When Ready to Create the
New Record . . ."
    APPEND BLANK
    EDIT FOR LAST_NAME = "          "
    DELETE FOR LAST_NAME = "          "
    SET FORMAT TO
    CLEAR
ENDIF
```

```
ENDIF
CLEAR
@ 3.13 TO 7.67 DOUBLE
@ 5.16 SAY "DO YOU WANT TO CREATE/EDIT MORE RECORDS (Y/N) ?"
REPE = ' '
@ 5.64 GET REPE
READ
ENDDO
CLEAR
@ 7.17 SAY "Updating database.  Please wait . . ."
PACK
* EOF: EDITA.PRG


* Program.....: INFOANCI.PRG
* Description.: Text program describing the Ancillary
Training
*                Module and its use.
CLEAR
 @ 1.0 TO 3.79 DOUBLE
 @ 2.25 SAY {ANCILLARY TRAINING MODULE}
 @ 4.2 SAY ' '
TEXT
     This module was designed to aid supply training
monitors who also track
  and manage the unit Ancillary Training Program (ATP).
With the new AFR 50-1
  published, deleting the requirement for units to maintain
the AF Form 991
  and mandating that base training OPRs document training,
the unit ATP
  monitor needs only to monitor refresher training.  Most
refresher training
  is at the discretion of the MAJCOM.

     Included in this module are those areas of training
where unit ATP
  monitors may still be required to monitor and document
refresher training.
  These areas include: OPSEC, COMSEC, PHYSEC, HUMINT, and
Terrorism Training.

     In addition, because unit mobility officers will still
want visibility
  over their mobility team training, the major mobility
training courses have
  been included.  Several mobility reports are available
under menu option -
  Mobility Reports.
ENDTEXT
@ 1,0 to 21,79 DOUBLE
WAIT
CLEAR
```

TEXT
  Menu Options:

    2.   CREATE/EDIT RECORDS - Allows the user to create new or
edit existing
       ancillary training records.

    3.   SEARCH DATABASE - Allows the user to search the active
database for
       specific records and training data.

    4.   DEFINE/VIEW FREQUENCY - Allows the user to define the
frequencies at
       which refresher training is due. The value entered
should be in days.

    5.   MANAGEMENT REPORTS - Several listings are available
such as "training
       due" listings. etc.

    6.   MOBILITY REPORTS - Mobility-specific reports on
training due. etc.

ENDTEXT
@ 1,0 TO 21,79 DOUBLE
WAIT
CLEAR
RETURN
* EOF: INFOANCI.PRG

* Program.....: SEARCHA.PRG
* Description.: Allows the user to search the database
CLEAR
@ 1,0 to 3,79 DOUBLE
@ 2,10 SAY [ANCILLARY TRAINING SEARCH FACILITY]
@ 2,60 SAY DATE()
@ 7,17 SAY "ENTER LAST NAME OF INDIVIDUAL"
@ 5,10 TO 9,70 DOUBLE
LNAME = '   '
@7,52 GET LNAME
READ
COUNT FOR LAST_NAME = LNAME TO FOUND
IF FOUND = 0
CLEAR
@ 9,9 TO 11,71 DOUBLE
@ 10,20 SAY "No Records Exist for Last Name = "
@ 10,53 SAY LNAME
?
?
?
WAIT "   Press any key to return to
menu."

```
     ELSE
     CLEAR
          SET FORMAT TO SEARCHA
          EDIT FOR LAST_NAME = LNAME
          SET FORMAT TO
          CLEAR
     @ 9,9 TO 11,71 DOUBLE
     @ 10,13 SAY "That is all the Records with Last Name = "
     @ 10,54 SAY LNAME
     ?
     ?
     ?
     WAIT "                          Press any key to return to
     menu."
     ENDIF
     CLEAR
     * EOF: SEARCHA.PRG

     * Program....: SEARCHA.FMT
     @  1, 27  SAY "Ancillary Training Record"
     @  3,  2  SAY "Last Name"
     @  3, 12  GET  THESIS->LAST_NAME
     @  3, 30  SAY "First Name"
     @  3, 41  GET  THESIS->FIRST_NAME
     @  3, 53  SAY "Grade"
     @  3, 59  GET  THESIS->PAY_GRADE  PICTURE "AXXXX"
     @  3, 66  SAY "DAS"
     @  3, 70  GET  THESIS->DTE_ASSND
     @  5,  2  SAY "Soc Security No"
     @  5, 18  GET  THESIS->SSN  PICTURE "XXX-XX-XXXX"
     @  5, 31  SAY "Off Sym"
     @  5, 39  GET  THESIS->OFF_SYM
     @  5, 53  SAY "Duty Ph."
     @  5, 62  GET  THESIS->DUTY_PHONE
     @  5, 68  SAY "AFSC"
     @  5, 73  GET  THESIS->AFSC
     @  7,  4  SAY "Training Dates (MM/DD/YY)
     Mobility Team Member (Y/N)"
     @  7, 71  GET  THESIS->MOBILITY  PICTURE "Y"
     @ 10,  5  SAY "EOR            SABC            CWDTI
     CWDTR          TQT"
     @ 11,  3  GET  THESIS->EOR
     @ 11, 18  GET  THESIS->SABC
     @ 11, 35  GET  THESIS->CWDTI
     @ 11, 52  GET  THESIS->CWDTR
     @ 11, 67  GET  THESIS->TQT
     @ 15,  4  SAY "HUMINT          OPSEC           COMSEC
     PHYSEC          TERRORISM"
     @ 16,  3  GET  THESIS->RACTHIT
     @ 16, 18  GET  THESIS->OPSEC
     @ 16, 35  GET  THESIS->COMSEC
     @ 16, 52  GET  THESIS->PHYSECAW
```

```
@ 16, 68   GET   THESIS->PROTTERR
@ 19, 11   SAY "Press Page Down to see other Records with
same Last Name."
@ 20, 15   SAY "Press ESCAPE to return to exit search
facility."
@ 18,  0   TO 21, 79
@  2,  0   TO  6, 79      DOUBLE
@  8,  0   TO  8, 79
@  0,  0   TO 21, 79      DOUBLE
→* EOF: SEARCHA.FMT

* Program....: ANCIEDIT.FMT
@  1, 27   SAY "Ancillary Training Record"
@  3,  2   SAY "Last Name"
@  3, 12   GET   THESIS->LAST_NAME
@  3, 30   SAY "First Name"
@  3, 41   GET   THESIS->FIRST_NAME
@  3, 53   SAY "Grade"
@  3, 59   GET   THESIS->PAY_GRADE  PICTURE "AXXXX"
@  3, 66   SAY "DAS"
@  3, 70   GET   THESIS->DTE_ASSND
@  5,  2   SAY "Soc Security No"
@  5, 18   GET   THESIS->SSN  PICTURE "XXX-XX-XXXX"
@  5, 31   SAY "Off Sym"
@  5, 39   GET   THESIS->OFF_SYM
@  5, 53   SAY "Duty Ph."
@  5, 62   GET   THESIS->DUTY_PHONE
@  5, 68   SAY "AFSC"
@  5, 73   GET   THESIS->AFSC
@  7,  4   SAY "Training Dates (MM/DD/YY)
Mobility Team Member (Y/N)"
@  7, 71   GET   THESIS->MOBILITY  PICTURE "Y"
@ 10,  5   SAY "EOR           SABC          CWDTI
CWDTR          TQT"
@ 11,  3   GET   THESIS->EOR
@ 11, 18   GET   THESIS->SABC
@ 11, 35   GET   THESIS->CWDTI
@ 11, 52   GET   THESIS->CWDTR
@ 11, 67   GET   THESIS->TQT
@ 15,  4   SAY "HUMINT        OPSEC         COMSEC
PHYSEC         TERRORISM"
@ 16,  3   GET   THESIS->RACTHIT
@ 16, 18   GET   THESIS->OPSEC
@ 16, 35   GET   THESIS->COMSEC
@ 16, 52   GET   THESIS->PHYSECAW
@ 16, 68   GET   THESIS->PROTTERR
@ 19,  2   SAY "Press Page Down (Pg Dn) to view more records
with same last name.  If record"
@ 20,  9   SAY "is the correct one, make input, and press
Ctrl-End to save."
@ 18,  0   TO 21, 79
@  2,  0   TO  6, 79      DOUBLE
```

```
@  8.   0  TO  8.  79
@  0.   0  TO 21,  79     DOUBLE
-* EOF: ANCIEDIT.FMT

* Program.....: ANCIFREQ.PRG
* Description.: Allows user to define/view training
frequencies
*                for training used in Ancillary Training Data
Base.
RESTORE FROM ANFREQ.MEM ADDITIVE
OC = 25
CC = 25
PC = 25
TC = 25
HC = 25
EC = 60
SC = 60
RC = 60
QC = 60
CLEAR
DO WHILE .T.
@ 1,02 TO 3,78 DOUBLE
@ 1,02 TO 19,78 DOUBLE
ANSWER = 0
@ 2,13 SAY "ANCILLARY TRAINING FREQUENCY CURRENT VALUES (IN
DAYS)"
@ 5,10 SAY "1. OPSEC"
@ 5,OC SAY FREQOP
@ 7,10 SAY "2. COMSEC"
@ 7,CC SAY FREQCOM
@ 9,10 SAY "3. PHYSEC"
@ 9,PC SAY FREQPHY
@ 11,10 SAY "4. TERRORISM"
@ 11,TC SAY FREQTER
@ 13,10 SAY "5. HUMINT"
@ 13,HC SAY FREQHUM
@ 5,45 SAY "6. EOR"
@ 5,EC SAY FREQEOR
@ 7,45 SAY "7. SA/BC"
@ 7,SC SAY FREQSAB
@ 9,45 SAY "8. CWDTR"
@ 9,RC SAY FREQCWR
@ 11,45 SAY "9. TQT"
@ 11,QC SAY FREQTQT
@ 13,45 SAY "0. EXIT MENU"
@ 17,23 SAY "WHICH DO YOU WANT TO CHANGE ? "
@ 17,53 GET ANSWER PICTURE "9"
READ
IF ANSWER = 0
   CLEAR
   RETURN
ENDIF
```

```
IF ANSWER = 1
   @ 5,32 GET FREQOP PICTURE "999"
   READ
   OC = 32
ENDIF
IF ANSWER = 2
   @ 7,32 GET FREQCOM PICTURE "999"
   READ
   CC = 32
ENDIF
IF ANSWER = 3
   @ 9,32 GET FREQPHY PICTURE "999"
   READ
   PC = 32
ENDIF
IF ANSWER = 4
   @ 11,32 GET FREQTER PICTURE "999"
   READ
   TC = 32
ENDIF
IF ANSWER = 5
   @ 13,32 GET FREQHUM PICTURE "999"
   READ
   HC = 32
ENDIF

IF ANSWER = 6
   @ 5,67 GET FREQEOR PICTURE "999"
   READ
   EC = 67
ENDIF
IF ANSWER = 7
   @ 7,67 GET FREQSAB PICTURE "999"
   READ
   SC = 67
ENDIF
IF ANSWER = 8
   @ 9,67 GET FREQCWR PICTURE "999"
   READ
   RC = 67
ENDIF

IF ANSWER = 9
   @ 11,67 GET FREQTQT PICTURE "999"
   READ
   QC = 67
ENDIF
   SET SAFETY OFF
   SAVE ALL LIKE FREQ* TO ANFREQ.MEM
   SET SAFETY ON
ENDDO
* EOF: ANFREQ.PRG
```

```
* Program.....: ANCIRPTS.PRG
* Description.: Management Reports for Ancillary Training
RESTORE FROM ANFREQ.MEM ADDITIVE
CLEAR
DO WHILE .T.
@ 1,0 TO 3,79 DOUBLE
@ 2,18 SAY [ANCILLARY TRAINING MANAGEMENT REPORTS FACILITY]
@ 1,0 TO 13,79 DOUBLE
@ 5,7 SAY "1. PERSONNEL DUE COMSEC"
@ 5,47 SAY "4. PERSONNEL DUE HUMINT"
@ 7,7 SAY "2. PERSONNEL DUE PHYSEC"
@ 7,47 SAY "5. PERSONNEL DUE OPSEC"
@ 9,7 SAY "3. PERSONNEL DUE PROT/TERRORISM"
@ 9,47 SAY "0. EXIT REPORTS MENU"
@ 11,30 SAY "SELECT A NUMBER"
SELECTNUM = 0
@ 11,46 GET SELECTNUM PICTURE "9"
READ
CLEAR
IF SELECTNUM = 0
    RETURN
ENDIF
PR = "N"
CLEAR
@ 9,15 TO 13,65 DOUBLE
@ 11,17 SAY "DO YOU WANT THIS SENT TO THE PRINTER (Y/N) ? "
@ 11,63 GET PR PICTURE "N"
READ
IF PR = "Y"
  CLEAR
  @ 5,20 SAY "MAKE SURE PRINTER IS ON-LINE AND READY . . ."
  ?
  WAIT "                          PRESS ANY KEY TO PRINT "
  CLEAR
  SET PRINT ON
ELSE
  CLEAR
  @ 5,20 SAY "USE CTRL-S TO STOP/START SCROLLING SCREEN."
  ?
  WAIT "                          PRESS ANY KEY TO BEGIN "
  CLEAR
ENDIF
IF SELECTNUM = 1
    ? "ALL PERSONNEL DUE COMSEC TRAINING                    As
of ",DATE()
    ?
    ?
    ? "Name                         Grade       COMSEC"
    ?
GO TOP
DO WHILE .NOT. EOF()
    IF COMSEC = CTOD("         ") .OR. (COMSEC+FREQCOM) <
```

```
DATE()
     ? LAST_NAME,FIRST_NAME,PAY_GRADE,COMSEC
     ?
   ENDIF
   SKIP
ENDDO
WAIT
ENDIF
IF SELECTNUM = 2
   ? "ALL PERSONNEL DUE PHYSEC TRAINING                          As
of ",DATE()
   ?
   ?
   ? "Name                                Grade       PHYSEC"
   ?
GO TOP
DO WHILE .NOT. EOF()
   IF PHYSECAW = CTOD("          ") .OR. (PHYSECAW+FREQPHY) <
DATE()
     ? LAST_NAME,FIRST_NAME.PAY_GRADE,PHYSECAW
     ?
   ENDIF
   SKIP
ENDDO
WAIT
ENDIF
IF SELECTNUM = 3
   ? "ALL PERSONNEL DUE PROTECTION FROM TERRORISM TRAINING
As of   ",DATE()
   ?
   ?
   ? "Name                                Grade       PROT/TERR"
   ?
GO TOP
DO WHILE .NOT. EOF()
   IF PROTTERR = CTOD("          ") .OR. (PROTTERR+FREQTER) < .
DATE()
     ? LAST_NAME,FIRST_NAME,PAY_GRADE,PROTTERR
     ?
   ENDIF
   SKIP
ENDDO
WAIT
ENDIF
IF SELECTNUM = 4
   ? "ALL PERSONNEL DUE HUMINT TRAINING
As of ",DATE()
   ?
   ?
   ? "Name                                Grade       HUMINT"
   ?
GO TOP
```

```
DO WHILE .NOT. EOF()
    IF RACTHIT = CTOD("           ") .OR. (RACTHIT+FREQHUM) <
DATE()
      ? LAST_NAME,FIRST_NAME,PAY_GRADE,RACTHIT
      ?
    ENDIF
    SKIP
ENDDO
WAIT
ENDIF
IF SELECTNUM = 5
    ? "ALL PERSONNEL DUE OPSEC TRAINING                   As
of ",DATE()
    ?
    ?
    ? "Name                         Grade    OPSEC"
    ?
GO TOP
DO WHILE .NOT. EOF()
    IF OPSEC = CTOD("          ") .OR. (OPSEC+FREQOP) < DATE()
      ? LAST_NAME,FIRST_NAME.PAY_GRADE.OPSEC
      ?
    ENDIF
    SKIP
ENDDO
WAIT
ENDIF
SET PRINT OFF
CLEAR
ENDDO
* EOF: ANCIRPTS.PRG

* Program....: ANCISCRN.FMT
@  1, 27  SAY "Ancillary Training Record"
@  3,  2  SAY "Last Name"
@  3, 12  GET  THESIS->LAST_NAME
@  3, 30  SAY "First Name"
@  3, 41  GET  THESIS->FIRST_NAME
@  3, 53  SAY "Grade"
@  3, 59  GET  THESIS->PAY_GRADE  PICTURE "AXXXX"
@  3, 66  SAY "DAS"
@  3, 70  GET  THESIS->DTE_ASSND
@  5,  2  SAY "Soc Security No"
@  5, 18  GET  THESIS->SSN  PICTURE "XXX-XX-XXXX"
@  5, 31  SAY "Off Sym"
@  5, 39  GET  THESIS->OFF_SYM
@  5, 53  SAY "Duty Ph."
@  5, 62  GET  THESIS->DUTY_PHONE
@  5, 68  SAY "AFSC"
@  5, 73  GET  THESIS->AFSC
@  7,  4  SAY "Training Dates (MM/DD/YY)
Mobility Team Member (Y/N)"
```

```
@  7, 71   GET   THESIS->MOBILITY  PICTURE "Y"
@ 10,  5   SAY "EOR              SABC              CWDTI
CWDTR          TQT"
@ 11,  3   GET   THESIS->EOR
@ 11, 18   GET   THESIS->SABC
@ 11, 35   GET   THESIS->CWDTI
@ 11, 52   GET   THESIS->CWDTR
@ 11, 67   GET   THESIS->TQT
@ 15,  4   SAY "HUMINT           OPSEC             COMSEC
PHYSEC         TERRORISM"
@ 16,  3   GET   THESIS->RACTHIT
@ 16, 18   GET   THESIS->OPSEC
@ 16, 35   GET   THESIS->COMSEC
@ 16, 52   GET   THESIS->PHYSECAW
@ 16, 68   GET   THESIS->PROTTERR
@ 19, 18   SAY "Press Ctrl-End when finished entering data"
@ 20, 27   SAY "to save training record."
@ 18,  0   TO 21, 79
@  2,  0   TO  6, 79      DOUBLE
@  8,  0   TO  8, 79
@  0,  0   TO 21, 79      DOUBLE
->* EOF: ANCISCRN.FMT

* Program.....: MOBRPTS.PRG
* Description.: Management Reports for Mobility Training
CLEAR
DO WHILE .T.
@ 1,0 TO 3,79 DOUBLE
@ 2,18 SAY [MOBILITY TRAINING MANAGEMENT REPORTS FACILITY]
@ 1,0 TO 15,79 DOUBLE
@ 5,10 SAY [1. MOBILITY TRAINING DATA DUMP]
@ 7,10 SAY [2. PERSONNEL DUE CWDTI]
@ 9,10 SAY [3. PERSONNEL DUE CWDTR]
@ 5,46 SAY [4. PERSONNEL DUE TQT]
@ 7,46 SAY [5. PERSONNEL DUE SABC]
@ 9,46 SAY [6. PERSONNEL DUE EOR]
@ 11,28 SAY [0. EXIT REPORTS MENU]
@ 13,30 SAY "SELECT A NUMBER"
SELECTNUM = 0
@ 13,46 GET SELECTNUM PICTURE "9"
READ
CLEAR
IF SELECTNUM = 0
    RETURN
ENDIF
PR = "N"
CLEAR
@ 9,15 TO 13,65 DOUBLE
@ 11,17 SAY "DO YOU WANT THIS SENT TO THE PRINTER (Y/N) ? "
@ 11,63 GET PR PICTURE "N"
READ
IF PR = "Y"
```

```
   CLEAR
   @ 5,20 SAY "MAKE SURE PRINTER IS ON-LINE AND READY . . . ."
   ?
   WAIT "                              PRESS ANY KEY TO PRINT "
   SET PRINT ON
ELSE
   CLEAR
   @ 5,20 SAY "USE CTRL-S TO STOP/START SCROLLING SCREEN "
   ?
   WAIT "                              PRESS ANY KEY TO BEGIN "
   CLEAR
ENDIF
IF SELECTNUM = 1
   ? "ALL MOBILITY PERSONNEL TRAINING DATA
",DATE()
   ?
   ?
   ? "Name                          Grade    CWDTI    CWDTR
SA/BC      TQT       EOR"
   ?
GO TOP
DO WHILE .NOT. EOF()
   IF MOBILITY
     ?
LAST_NAME,FIRST_NAME,PAY_GRADE,CWDTI,CWDTR,SABC,TQT,EOR
     ?
   ENDIF
SKIP
ENDDO
SET PRINT OFF
WAIT
CLEAR
ENDIF
IF SELECTNUM = 2
? "PERSONNEL DUE INITIAL CHEMICAL WARFARE DEFENSE TRAINING
",DATE()
?
?
?
? "Name                          Grade"
?
GO TOP
DO WHILE .NOT. EOF()
   IF MOBILITY .AND. CWDTI = CTOD("        ")
     ? LAST_NAME," ",FIRST_NAME,"  ",PAY_GRADE
     ?
   ENDIF
SKIP
ENDDO
SET PRINT OFF
WAIT
CLEAR
```

```
ENDIF
IF SELECTNUM = 3
? "PERSONNEL DUE REFRESHER CHEMICAL WARFARE DEFENSE TRAINING
",DATE()
?
?
?
? "Name                              Grade      CWDTI
CWDTR"
?
GO TOP
DO WHILE .NOT. EOF()
    IF MOBILITY .AND. (CMONTH(CWDTR+335) = CMONTH(DATE())
.OR.
CMONTH(CWDTI+335) = CMONTH(DATE()))
       ?LAST_NAME,"   ",FIRST_NAME,"   ",PAY_GRADE,"   ",CWDTI,"
",CWDTR
       ?
    ENDIF
SKIP
ENDDO
SET PRINT OFF
WAIT
CLEAR
ENDIF
IF SELECTNUM = 4
? "PERSONNEL DUE TASK QUALIFICATION TRAINING
",DATE()
?
?
?
? "Name                              Grade      CWDTI
CWDTR        TQT"
?
GO TOP
DO WHILE .NOT. EOF()
    IF MOBILITY .AND. CMONTH(TQT+155) = CMONTH(DATE())
       ?LAST_NAME,"   ",FIRST_NAME,"   ",PAY_GRADE,"   ",CWDTI,"
",CWDTR,"   ",TQT
       ?
    ENDIF
SKIP
ENDDO
SET PRINT OFF
WAIT
CLEAR
ENDIF
IF SELECTNUM = 5
? "PERSONNEL DUE SELF AID AND BUDDY CARE TRAINING
",DATE()
?
?
```

```
?
? "Name                              Grade        SA/BC"
?
GO TOP
DO WHILE .NOT. EOF()
    IF MOBILITY .AND. (SABC = CTOD("            ") .OR. ;
CMONTH(SABC+335) = CMONTH(DATE()))
        ?LAST_NAME,"   ",FIRST_NAME,"  ",PAY_GRADE,"   ",SABC
        ?
    ENDIF
SKIP
ENDDO
SET PRINT OFF
WAIT
CLEAR
ENDIF
IF SELECTNUM = 6
? "PERSONNEL DUE EXPLOSIVE ORDNANCE RECOGNITION TRAINING
",DATE()
?
?
?
? "Name                              Grade        EOR"
?
GO TOP
DO WHILE .NOT. EOF()
    IF MOBILITY .AND. (EOR = CTOD("            ") .OR. ;
CMONTH(EOR+335) = CMONTH(DATE()))
    ?LAST_NAME,"   ",FIRST_NAME,"  ",PAY_GRADE,"   ",EOR
    ?
    ENDIF
SKIP
ENDDO
SET PRINT OFF
WAIT
CLEAR
ENDIF
ENDDO
* EOF: MOBRPTS.PRG
```

Miscellaneous Training Module

```
* Program.....: MISC.PRG
* Description.: Program Module for Miscellaneous Training
SET SCOREBOARD OFF
SET HEADINGS OFF
SET TALK OFF
SET BELL OFF
SET STATUS OFF
SET ESCAPE OFF
SET CONFIRM Off
USE THESIS INDEX LASTNAME
DO WHILE .T.
    * ---Display menu options. centered on the screen.
    *     draw menu border and print heading
    CLEAR
    @ 2, 0 TO 16,79 DOUBLE
    @ 3, 3 SAY [MISCELLANEOUS TRAINING MODULE]
    @ 3,53 SAY CDOW(DATE())+", "+CMONTH(DATE())+"
"+LTRIM(STR(DAY(DATE()),2))+", "+LTRIM(STR(YEAR(DATE()),4))
    @ 4,1 TO 4,78 DOUBLE
    * ---display detail lines
    @  6,10 SAY [1. PROGRAM INFORMATION]
    @  8,10 SAY [2. CREATE/EDIT RECORDS]
    @ 10,10 SAY [3. SEARCH DATABASE]
    @  6,45 SAY [4. DEFINE/VIEW HEADINGS/FREQ]
    @  8,45 SAY [5. MANAGEMENT REPORTS]
    @ 10,45 SAY [0. EXIT TO MAIN MENU]
    @ 14,3 SAY [Last Update:]
    @ 15,4 SAY LUPDATE()
    selectnum=0
    @ 14,27 SAY "Please Enter Your Choice"
    @ 14,54 GET selectnum PICTURE "9"
    READ
    CLEAR
    DO CASE
        CASE selectnum = 0
            CLEAR
            RETURN
        CASE selectnum = 1
            DO INFOMISC.PRG
        CASE selectnum = 2
            DO EDITM.PRG
            REINDEX
        CASE selectnum = 3
            DO SEARCHM.PRG
        CASE selectnum = 4
            DO MISCFREQ.PRG
        CASE selectnum = 5
            DO MISCRPTS.PRG
ENDCASE
ENDDO
```

```
RETURN
* EOF: MISC.PRG


* Program.....: INFOMISC.PRG
* Description.: Text program describing the Miscellaneous
Training
*                   Module and its use
CLEAR
 @ 1,23 SAY [MISCELLANEOUS TRAINING MODULE]
 @ 2.2 SAY ' '
TEXT
     This module was designed to aid supply training
monitors who, in addition
  to managing the customer training program, must also
manage several areas of
  miscellaneous training.  Since this type of training
varies from unit to
  unit the data field are labled MISC1, MISC2,...,MISC10.
The user can define
  each of these fields with names he/she chooses.

  Menu Options:
  2.   CREATE/EDIT RECORDS - Allows the user to create new or
edit existing
       miscellaneous training records.


  3.   SEARCH DATABASE - Allows the user to search the active
database for
       specific records and training data.


  4.   DEFINE/VIEW HEADINGS/FREQ - Allows the user to define
the headings used
       by each of the miscellaneous training fields and
define the frequency at
       which refresher training is due.


  5.   MANAGEMENT REPORTS - "Training due" listings for each
of the ten
       miscellaneous training areas.
ENDTEXT
@ 0,0 to 2,79 DOUBLE
@ 0,0 to 22,79 DOUBLE
wait
* EOF: INFOMISC.PRG
-;
* Program.....: EDITM.PRG
* Description.: Allows editing of the Miscellaneous Training
REPE = "Y"
RESTORE FROM MNAMES.MEM ADDITIVE
DO WHILE REPE <> "N"
CLEAR
@ 1,0 to 3,79 DOUBLE
```

```
@ 2.10 SAY [MISCELLANEOUS TRAINING CREATE/EDIT FACILITY]
@ 2.60 SAY DATE()
@ 7.17 SAY "ENTER LAST NAME OF INDIVIDUAL"
@ 5.10 TO 9.70 DOUBLE
LNAME = '                    '
@7.52 GET LNAME
READ
COUNT FOR LAST_NAME = LNAME TO FOUND
IF FOUND = 0
    WAIT "No Records Exist for that Last Name.  Press Any
Key to Enter
New Information."
    SET FORMAT TO MISCSCRN
    APPEND BLANK
    EDIT FOR LAST_NAME = "              "
    DELETE FOR LAST_NAME = "            "
    SET FORMAT TO
ELSE
    SET FORMAT TO MISCEDIT
    EDIT FOR LAST_NAME = LNAME
    SET FORMAT TO
    CLEAR
@ 9,9 TO 13,71 DOUBLE
@ 10,19 SAY "That is all the Records with that Last Name"
@ 11,18 SAY "Did You Find the Record You Were Looking For ?"
@ 12,37 SAY "(Y/N)"
ANSWER = ' '
@ 12,42 GET ANSWER
READ
IF ANSWER = 'N'
    SET FORMAT TO MISCSCRN
    @ 15,10 SAY "   "
    WAIT "          Press Any Key When Ready to Create the
New Record . . ."
    APPEND BLANK
    EDIT FOR LAST_NAME = "          "
    DELETE FOR LAST_NAME = "          "
    SET FORMAT TO
    CLEAR
ENDIF
ENDIF
CLEAR
@ 3,13 TO 7,67 DOUBLE
@ 5,16 SAY "DO YOU WANT TO CREATE/EDIT MORE RECORDS (Y/N) ?"
REPE = ' '
@ 5,64 GET REPE
READ
ENDDO
CLEAR
@ 7,17 SAY "Updating database.  Please wait . . ."
PACK
* EOF: EDITM.PRG
```

```
* Program....: MISCEDIT.FMT
@  1. 23   SAY "Miscellaneous Training Data Record"
@  4.  7   SAY "Last Name"
@  4. 17   GET   THESIS->LAST_NAME
@  4. 35   SAY "First Name"
@  4. 46   GET   THESIS->FIRST_NAME
@  4. 59   SAY "Pay Grade"
@  4. 69   GET   THESIS->PAY_GRADE   PICTURE "AXXXX"
@  7.  3   SAY "Social Security No."
@  7. 23   GET   THESIS->SSN   PICTURE "999-99-9999"
@  7. 36   SAY "Office Symbol"
@  7. 50   GET   THESIS->OFF_SYM
@  7. 63   SAY "Duty Phone"
@  7. 74   GET   THESIS->DUTY_PHONE   PICTURE "9999"
@  9. 27   SAY "Training Dates (MM/DD/YY)"
@ 12.  6   SAY "MISC 1          MISC 2          MISC 3
MISC 4          MISC 5"
@ 13.  5   GET   THESIS->MISC1
@ 13. 20   GET   THESIS->MISC2
@ 13. 35   GET   THESIS->MISC3
@ 13. 51   GET   THESIS->MISC4
@ 13. 65   GET   THESIS->MISC5
@ 16.  6   SAY "MISC 6          MISC 7          MISC 8
MISC 9          MISC 10"
@ 17.  5   GET   THESIS->MISC6
@ 17. 20   GET   THESIS->MISC7
@ 17. 35   GET   THESIS->MISC8
@ 17. 51   GET   THESIS->MISC9
@ 17. 65   GET   THESIS->MISC10
@ 20.  3   SAY "Press Page Down (Pg Dn) to view more records
with same last name. If record"
@ 21. 10   SAY "is the correct on. make input, and press
Ctrl-End to save."
@  0.  0   TO 2, 79     DOUBLE
@  8.  0   TO 10. 79
@ 19.  0   TO 19. 79
@  0.  0   TO 22. 79     DOUBLE
* EOF: MISCEDIT.FMT

* Program.....: SEARCHM.PRG
* Description.: Allows the user to search the database
CLEAR
@ 1,0 to 3,79 DOUBLE
@ 2.10 SAY [MISCELLANEOUS TRAINING SEARCH FACILITY]
@ 2.60 SAY DATE()
@ 7.17 SAY "ENTER LAST NAME OF INDIVIDUAL"
@ 5.10 TO 9,70 DOUBLE
LNAME = '              '
@7,52 GET LNAME
READ
COUNT FOR LAST_NAME = LNAME TO FOUND
IF FOUND = 0
```

```
CLEAR
@ 9,9 TO 11,71 DOUBLE
@ 10,20 SAY "No Records Exist for Last Name = "
@ 10,53 SAY LNAME
?
?
?

WAIT "                              Press any key to return to
menu."
ELSE
CLEAR
     SET FORMAT TO SEARCHM
     EDIT FOR LAST_NAME = LNAME
     SET FORMAT TO
     CLEAR
@ 9,9 TO 11,71 DOUBLE
@ 10,13 SAY "That is all the Records with Last Name = "
@ 10,54 SAY LNAME
?
?
?
WAIT "                              Press any key to return to
menu."
ENDIF
CLEAR
* EOF: SEARCHM.PRG

* Program....: SEARCHM.FMT
@  1, 23  SAY  "Miscellaneous Training Data Record"
@  4,  7  SAY  "Last Name"
@  4, 17  GET  THESIS->LAST_NAME
@  4, 35  SAY  "First Name"
@  4, 46  GET  THESIS->FIRST_NAME
@  4, 59  SAY  "Pay Grade"
@  4, 69  GET  THESIS->PAY_GRADE  PICTURE "AXXXX"
@  7,  3  SAY  "Social Security No."
@  7, 23  GET  THESIS->SSN  PICTURE "999-99-9999"
@  7, 36  SAY  "Office Symbol"
@  7, 50  GET  THESIS->OFF_SYM
@  7, 63  SAY  "Duty Phone"
@  7, 74  GET  THESIS->DUTY_PHONE  PICTURE "9999"
@  9, 27  SAY  "Training Dates (MM/DD/YY)"
@ 12,  6  SAY  "MISC 1          MISC 2          MISC 3
MISC 4          MISC 5"
@ 13,  5  GET  THESIS->MISC1
@ 13, 20  GET  THESIS->MISC2
@ 13, 35  GET  THESIS->MISC3
@ 13, 51  GET  THESIS->MISC4
@ 13, 65  GET  THESIS->MISC5
@ 16,  6  SAY  "MISC 6          MISC 7          MISC 8
MISC 9          MISC 10"
```

```
@ 17,  5   GET   THESIS->MISC6
@ 17, 20   GET   THESIS->MISC7
@ 17, 35   GET   THESIS->MISC8
@ 17, 51   GET   THESIS->MISC9
@ 17, 65   GET   THESIS->MISC10
@ 20, 10   SAY "Press Page Down to see other Records with
same Last Name."
@ 21, 18   SAY "Press ESCAPE to exit search facility."
@  0,  0   TO  2, 79     DOUBLE
@  8,  0   TO 10, 79
@ 19,  0   TO 19, 79
@  0,  0   TO 22, 79     DOUBLE
* EOF: SEARCHM.FMT

* Program.....: MISCFREQ.PRG
* Description.: Allows user to define/view training
frequencies
*              and Headings for training used in
Miscellaneous
*              Training Data Base.
RESTORE FROM MIFREQ.MEM ADDITIVE
RESTORE FROM MNAMES.MEM ADDITIVE
CLEAR
DO WHILE .T.
@ 1,02 TO 3,78 DOUBLE
@ 1,02 TO 19,78 DOUBLE
ANSWER = "E"
@ 2,7 SAY "MISCELLANEOUS TRAINING HEADINGS/FREQUENCY (IN
DAYS) CURRENT VALUES"
@ 5,10 SAY "1. "
@ 5,14 SAY M1NAME
@ 5,32 SAY FREQM1 PICTURE "999"
@ 5,45 SAY "6. "
@ 5,49 SAY M6NAME
@ 5,67 SAY FREQM6 PICTURE "999"
@ 7,10 SAY "2. "
@ 7,14 SAY M2NAME
@ 7,32 SAY FREQM2 PICTURE "999"
@ 7,45 SAY "7. "
@ 7,49 SAY M7NAME
@ 7,67 SAY FREQM7 PICTURE "999"
@ 9,10 SAY "3. "
@ 9,14 SAY M3NAME
@ 9,32 SAY FREQM3 PICTURE "999"
@ 9,45 SAY "8. "
@ 9,49 SAY M8NAME
@ 9,67 SAY FREQM8 PICTURE "999"
@ 11,10 SAY "4. "
@ 11,14 SAY M4NAME
@ 11,32 SAY FREQM4 PICTURE "999"
@ 11,45 SAY "9. "
@ 11,49 SAY M9NAME
```

```
@ 11,67 SAY FREQM9 PICTURE "999"
@ 13,10 SAY "5. "
@ 13,14 SAY M5NAME
@ 13,32 SAY FREQM5 PICTURE "999"
@ 13,45 SAY "0. "
@ 13,49 SAY M10NAME
@ 13,67 SAY FREQM10 PICTURE "999"
@ 15,34 SAY "E. EXIT MENU"
@ 17,26 SAY "WHICH DO YOU WANT TO CHANGE ? "
@ 17,56 GET ANSWER PICTURE "X"
READ
IF ANSWER - "E"
    CLEAR
    RETURN
ENDIF
IF ANSWER - "1"
    @ 5,14 GET M1NAME PICTURE "XXXXXXXXXX"
    READ
    @ 5,32 GET FREQM1 PICTURE "999"
    READ
ENDIF
IF ANSWER - "2"
    @ 7,14 GET M2NAME PICTURE "XXXXXXXXXX"
    READ
    @ 7,32 GET FREQM2 PICTURE "999"
    READ
ENDIF
IF ANSWER - "3"
    @ 9,14 GET M3NAME PICTURE "XXXXXXXXXX"
    READ
    @ 9,32 GET FREQM3 PICTURE "999"
    READ
ENDIF
IF ANSWER - "4"
    @ 11,14 GET M4NAME PICTURE "XXXXXXXXXX"
    READ
    @ 11,32 GET FREQM4 PICTURE "999"
    READ
ENDIF
IF ANSWER - "5"
    @ 13,14 GET M5NAME PICTURE "XXXXXXXXXX"
    READ
    @ 13,32 GET FREQM5 PICTURE "999"
    READ
ENDIF
IF ANSWER - "6"
    @ 5,49 GET M6NAME PICTURE "XXXXXXXXXX"
    READ
    @ 5,67 GET FREQM6 PICTURE "999"
    READ
ENDIF
IF ANSWER - "7"
```

```
      @ 7.49 GET M7NAME PICTURE "XXXXXXXXX"
      READ
      @ 7.67 GET FREQM7 PICTURE "999"
      READ
ENDIF
IF ANSWER - "8"
      @ 9.49 GET M8NAME PICTURE "XXXXXXXXX"
      READ
      @ 9.67 GET FREQM8 PICTURE "999"
      READ
ENDIF
IF ANSWER - "9"
      @ 11.49 GET M9NAME PICTURE "XXXXXXXXX"
      READ
      @ 11.67 GET FREQM9 PICTURE "999"
      READ
ENDIF
IF ANSWER - "0"
      @ 13.49 GET M10NAME PICTURE "XXXXXXXXX"
      READ
      @ 13.67 GET FREQM10 PICTURE "999"
      READ
ENDIF
      SET SAFETY OFF
      SAVE ALL LIKE FREQM* TO MIFREQ.MEM
      SAVE ALL LIKE M*NAMES TO MNAMES.MEM
      SET SAFETY ON
ENDDO
* EOF: MISCFREQ.PRG

* Program....: MISCSCRN.FMT
@  1, 23  SAY "Miscellaneous Training Data Record"
@  4,  7  SAY "Last Name"
@  4, 17  GET  THESIS->LAST_NAME
@  4, 35  SAY "First Name"
@  4, 46  GET  THESIS->FIRST_NAME
@  4, 59  SAY "Pay Grade"
@  4, 69  GET  THESIS->PAY_GRADE  PICTURE "AXXXX"
@  7,  3  SAY "Social Security No."
@  7, 23  GET  THESIS->SSN  PICTURE "999-99-9999"
@  7, 36  SAY "Office Symbol"
@  7, 50  GET  THESIS->OFF_SYM
@  7, 63  SAY "Duty Phone"
@  7, 74  GET  THESIS->DUTY_PHONE  PICTURE "9999"
@  9, 27  SAY "Training Dates (MM/DD/YY)"
@ 12,  5  SAY M1NAME+"        "+M2NAME+"        "+M3NAME+"
"+M4NAME+"        "+M5NAME
@ 13,  5  GET  THESIS->MISC1
@ 13, 20  GET  THESIS->MISC2
@ 13, 35  GET  THESIS->MISC3
@ 13, 51  GET  THESIS->MISC4
@ 13, 65  GET  THESIS->MISC5
```

```
@ 16.   5   SAY M6NAME+"         "+M7NAME+"         "+M8NAME+"
"+M9NAME+"         "+M10NAME
@ 17,   5   GET   THESIS->MISC6
@ 17,  20   GET   THESIS->MISC7
@ 17,  35   GET   THESIS->MISC8
@ 17,  51   GET   THESIS->MISC9
@ 17,  65   GET   THESIS->MISC10
@ 20,  18   SAY "Press Ctrl-End when finished entering data"
@ 21,  25   SAY "to save training record."
@  0,   0   TO  2, 79      DOUBLE
@  8,   0   TO 10, 79
@ 19,   0   TO 19, 79
@  0,   0   TO 22, 79      DOUBLE
* EOF: MISCSCRN.FMT

* Program.....: MISCRPTS.PRG
* Description.: Reports for Misc Training
RESTORE FROM MNAMES.MEM ADDITIVE
RESTORE FROM MIFREQ.MEM ADDITIVE
CLEAR
DO WHILE .T.
@ 1,0 TO 3,79 DOUBLE
@ 2,18 SAY [MISCELLANEOUS TRAINING MANAGEMENT REPORTS
FACILITY]
@ 1,0 TO 19,79 DOUBLE
@ 5,7 SAY "1. PERSONNEL DUE "
@ 5,24 SAY M1NAME
@ 5,47 SAY "6. PERSONNEL DUE "
@ 5,64 SAY M6NAME
@ 7,7 SAY "2. PERSONNEL DUE "
@ 7,24 SAY M2NAME
@ 7,47 SAY "7. PERSONNEL DUE "
@ 7,64 SAY M7NAME
@ 9,7 SAY "3. PERSONNEL DUE "
@ 9,24 SAY M3NAME
@ 9,47 SAY "8. PERSONNEL DUE "
@ 9,64 SAY M8NAME
@ 11,7 SAY "4. PERSONNEL DUE "
@ 11,24 SAY M4NAME
@ 11,47 SAY "9. PERSONNEL DUE "
@ 11,64 SAY M9NAME
@ 13,7 SAY "5. PERSONNEL DUE "
@ 13,24 SAY M5NAME
@ 13,47 SAY "0. PERSONNEL DUE "
@ 13,64 SAY M10NAME
@ 15,28 SAY [E. EXIT REPORTS MENU]
@ 17,30 SAY "SELECT A NUMBER"
SELECTNUM = "E"
@ 17,46 GET SELECTNUM PICTURE "X"
READ
CLEAR
IF SELECTNUM = "E"
```

```
      RETURN
ENDIF
PR = "N"
@ 9.15 TO 13.65 DOUBLE
@ 11,17 SAY "DO YOU WANT THIS SENT TO THE PRINTER (Y/N) ? "
@ 11,63 GET PR PICTURE "N"
READ
IF PR = "Y"
   CLEAR
   @ 5,20 SAY "MAKE SURE PRINTER IS ON-LINE AND READY . . ."
   ?
   WAIT "                              PRESS ANY KEY TO PRINT "
   SET PRINT ON
ELSE
   CLEAR
   @ 5,20 SAY "USE CTRL-S TO STOP/START SCROLLING SCREEN "
   ?
   WAIT "                              PRESS ANY KEY TO BEGIN "
   CLEAR
ENDIF
IF SELECTNUM = "1"
   ? "ALL PERSONNEL DUE",RTRIM(M1NAME),"TRAINING           As
of ",DATE()
   ?
   ? "Name                         Grade    ",M1NAME
   ?
GO TOP
DO WHILE .NOT. EOF()
   IF MISC1 = CTOD("        ") .OR. (MISC1+FREQM1) < DATE()
    ? LAST_NAME,FIRST_NAME,PAY_GRADE,MISC1
    ?
   ENDIF
   SKIP
ENDDO
WAIT
ENDIF
IF SELECTNUM = "2"
   ? "ALL PERSONNEL DUE",RTRIM(M2NAME),"TRAINING           As
of ",DATE()
   ?
   ?
   ? "Name                         Grade    ",M2NAME
   ?
GO TOP
DO WHILE .NOT. EOF()
   IF MISC2 = CTOD("        ") .OR. (MISC2+FREQM2) < DATE()
    ? LAST_NAME,FIRST_NAME,PAY_GRADE,MISC2
    ?
   ENDIF
   SKIP
ENDDO
WAIT
```

```
ENDIF
IF SELECTNUM =  3"
   ? "ALL PERSONNEL DUE",RTRIM(M3NAME),"TRAINING
As of  ".DATE()
   ?
   ?
   ? "Name                          Grade    ",M3NAME
   ?
GO TOP
DO WHILE .NOT. EOF()
   IF MISC3 - CTOD("        ") .OR. (MISC3+FREQM3) < DATE()
    ? LAST_NAME,FIRST_NAME,PAY_GRADE,MISC3
    ?
   ENDIF
   SKIP
ENDDO
WAIT
ENDIF
IF SELECTNUM = "4"
   ? "ALL PERSONNEL DUE",RTRIM(M4NAME),"TRAINING            As
of ",DATE()
   ?
   ?
   ? "Name                          Grade    ",M4NAME
   ?
GO TOP
DO WHILE .NOT. EOF()
   IF MISC4 - CTOD("        ") .OR. (MISC4+FREQM4) < DATE()
    ? LAST_NAME,FIRST_NAME,PAY_GRADE,MISC4
    ?
   ENDIF
   SKIP
ENDDO
WAIT
ENDIF
IF SELECTNUM = "5"
   ? "ALL PERSONNEL DUE",RTRIM(M5NAME),"TRAINING            As
of ",DATE()
   ?
   ?
   ? "Name                          Grade    ",M5NAME
   ?
GO TOP
DO WHILE .NOT. EOF()
   IF MISC5 - CTOD("        ") .OR. (MISC5+FREQM5) < DATE()
    ? LAST_NAME,FIRST_NAME,PAY_GRADE,MISC5
    ?
   ENDIF
   SKIP
ENDDO
WAIT
ENDIF
```

115

```
IF SELECTNUM - "6"
    ? "ALL PERSONNEL DUE".RTRIM(M6NAME)."TRAINING
As of  ".DATE()
    ?
    ?
    ? "Name                            Grade    ".M6NAME
    ?
GO TOP
DO WHILE .NOT. EOF()
    IF MISC6 = CTOD("          ") .OR. (MISC6+FREQM6) < DATE()
     ? LAST_NAME,FIRST_NAME,PAY_GRADE,MISC6
     ?
    ENDIF
    SKIP
ENDDO
WAIT
ENDIF
IF SELECTNUM - "7"
    ? "ALL PERSONNEL DUE".RTRIM(M7NAME)."TRAINING          As
of ".DATE()
    ?
    ?
    ? "Name                            Grade    ".M7NAME
    ?
GO TOP
DO WHILE .NOT. EOF()
    IF MISC7 = CTOD("          ") .OR. (MISC7+FREQM7) < DATE()
     ? LAST_NAME,FIRST_NAME,PAY_GRADE,MISC7
     ?
    ENDIF
    SKIP
ENDDO
WAIT
ENDIF
IF SELECTNUM - "8"
    ? "ALL PERSONNEL DUE".RTRIM(M8NAME)."TRAINING          As
of ".DATE()
    ?
    ?
    ? "Name                            Grade    ".M8NAME
    ?
GO TOP
DO WHILE .NOT. EOF()
    IF MISC8 - CTOD("          ") .OR. (MISC8+FREQM8) < DATE()
     ? LAST_NAME,FIRST_NAME,PAY_GRADE,MISC8
     ?
    ENDIF
    SKIP
ENDDO
WAIT
ENDIF
IF SELECTNUM - "9"
```

```
    ? "ALL PERSONNEL DUE",RTRIM(M9NAME),"TRAINING
As of  ",DATE()
    ?
    ?
    ? "Name                             Grade    ",M9NAME
    ?
GO TOP
DO WHILE .NOT. EOF()
    IF MISC9 = CTOD("          ") .OR. (MISC9+FREQM9) < DATE()
     ? LAST_NAME,FIRST_NAME,PAY_GRADE,MISC9
     ?
    ENDIF
    SKIP
ENDDO
WAIT
ENDIF
IF SELECTNUM = "0"
    ? "ALL PERSONNEL DUE",RTRIM(M10NAME),"TRAINING
As of ",DATE()
    ?
    ?
    ? "Name                             Grade    ",M10NAME
    ?
GO TOP
DO WHILE .NOT. EOF()
    IF MISC10 = CTOD("          ") .OR. (MISC10+FREQM10) <
DATE()
     ? LAST_NAME,FIRST_NAME,PAY_GRADE,MISC10
     ?
    ENDIF
    SKIP
ENDDO
WAIT
ENDIF
SET PRINT OFF
CLEAR
ENDDO
* EOF: MISCRPTS.PRG
⇢


⇢



⇢
⇢
```

Appendix C: Data Entry Screen Forms for STMIS

```
┌─────────────────────────────────────────────────────────────┐
│              Base Supply Customer Training Record            │
╞═════════════════════════════════════════════════════════════╡
│                                                              │
│     Last Name              First Name            Pay Grade   │
│                                                              │
│  Social Security No.   -  -    Office Symbol       Duty Phone│
├─────────────────────────────────────────────────────────────┤
│                  Training Dates (MM/DD/YY)                   │
├─────────────────────────────────────────────────────────────┤
│                                                              │
│          BLOCK I        BLOCK IIA      BLOCK IIB             │
│            / /            / /            / /                 │
│                                                              │
│                                                              │
│     ACCT      BLOCK III      Test Score      BLOCK IV        │
│                 / /                            / /           │
│                                                              │
├─────────────────────────────────────────────────────────────┤
│   Press RETURN through remaining fields, or press Ctrl-End when│
│          finished entering data to save record.             │
└─────────────────────────────────────────────────────────────┘
```

```
┌─────────────────────────────────────────────────────────────┐
│                  Ancillary Training Record                   │
╞═════════════════════════════════════════════════════════════╡
│  Last Name            First Name         Grade     DAS  / /  │
│                                                              │
│  Soc Security No   -  -   Off Sym        Duty Ph.    AFSC    │
╞═════════════════════════════════════════════════════════════╡
│   Training Dates (MM/DD/YY)         Mobility Team Member (Y/N) ?│
├─────────────────────────────────────────────────────────────┤
│                                                              │
│   EOR         SABC         CWDTI        CWDTR        TOT     │
│   / /         / /           / /          / /         / /     │
│                                                              │
│                                                              │
│   HUMINT      OPSEC        CONSEC       PHYSEC     TERRORISM  │
│   / /         / /           / /          / /         / /     │
│                                                              │
├─────────────────────────────────────────────────────────────┤
│      Press Ctrl-End when finished entering data              │
│             to save training record.                        │
└─────────────────────────────────────────────────────────────┘
```

```
┌─────────────────────────────────────────────────────────────┐
│              Miscellaneous Training Data Record               │
╞═══════════════════════════════════════════════════════════════╡
│                                                               │
│     Last Name            First Name          Pay Grade        │
│                                                               │
│  Social Security No.    -  -    Office Symbol      Duty Phone │
├───────────────────────────────────────────────────────────────┤
│                 Training Dates (MM/DD/YY)                      │
├───────────────────────────────────────────────────────────────┤
│                                                               │
│   STDS COND      UCMJ        DLVRY TRK    PROT/PRES   TORNADO  │
│     / /          / /           / /          / /        / /    │
│                                                               │
│                                                               │
│   CRM PREV     CTRL CNTR     HURRICANE     TYPING    UNDEFINED │
│     / /          / /           / /          / /        / /    │
│                                                               │
├───────────────────────────────────────────────────────────────┤
│        Press Ctrl-End when finished entering data             │
│                 to save training record.                      │
└─────────────────────────────────────────────────────────────┘
```

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SECURITY CLASSIFICATION OF THIS PAGE

REPORT DOCUMENTATION PAGE	Form Approved OMB No. 0704-0188

1a. REPORT SECURITY CLASSIFICATION UNCLASSIFIED	1b. RESTRICTIVE MARKINGS

2a. SECURITY CLASSIFICATION AUTHORITY	3. DISTRIBUTION/AVAILABILITY OF REPORT
2b. DECLASSIFICATION/DOWNGRADING SCHEDULE	Approved for public release; distribution unlimited.

4. PERFORMING ORGANIZATION REPORT NUMBER(S) AFIT/GLM/LSM/89S-46	5. MONITORING ORGANIZATION REPORT NUMBER(S)

6a. NAME OF PERFORMING ORGANIZATION School of Systems and Logistics	6b. OFFICE SYMBOL (If applicable) AFIT/LSM	7a. NAME OF MONITORING ORGANIZATION

6c. ADDRESS (City, State, and ZIP Code) Air Force Institute of Technology Wright-Patterson AFB OH 45433-6583	7b. ADDRESS (City, State, and ZIP Code)

8a. NAME OF FUNDING/SPONSORING ORGANIZATION	8b. OFFICE SYMBOL (If applicable)	9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER

8c. ADDRESS (City, State, and ZIP Code)	10. SOURCE OF FUNDING NUMBERS			
	PROGRAM ELEMENT NO.	PROJECT NO.	TASK NO.	WORK UNIT ACCESSION NO.

11. TITLE (Include Security Classification)

SUPPLY TRAINING MANAGEMENT INFORMATION SYSTEMS

12. PERSONAL AUTHOR(S)
Herbert Phillips, Jr., B.S., Captain, USAF

13a. TYPE OF REPORT MS Thesis	13b. TIME COVERED FROM _____ TO _____	14. DATE OF REPORT (Year, Month, Day) 1989 September	15 PAGE COUNT 134

16. SUPPLEMENTARY NOTATION

17. COSATI CODES			18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)
FIELD	GROUP	SUB-GROUP	Supply Training Database Management
12	05		Training Management Training Software
12	07		

19. ABSTRACT (Continue on reverse if necessary and identify by block number)

Thesis Advisor: Bruce P. Christensen
Assistant Professor
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Approved for public release: IAW AFR 190-1.

LARRY W. EMMELHAINZ, Lt Col, USAF   14 Oct 89
Director of Research and Consultation
Air Force Institute of Technology (AU)
Wright-Patterson AFB OH 45433-6583

20. DISTRIBUTION/AVAILABILITY OF ABSTRACT ☒ UNCLASSIFIED/UNLIMITED ☐ SAME AS RPT. ☐ DTIC USERS	21. ABSTRACT SECURITY CLASSIFICATION UNCLASSIFIED
22a. NAME OF RESPONSIBLE INDIVIDUAL Bruce P. Christensen, Assist. Professor	22b. TELEPHONE (Include Area Code) (513) 255-4149	22c. OFFICE SYMBOL LSM

DD Form 1473, JUN 86   Previous editions are obsolete.   SECURITY CLASSIFICATION OF THIS PAGE

Supply squadron training monitors have before them an enormous task; to monitor, maintain, and schedule large numbers of base and squadron personnel for many different training requirements. Included in these training requirements are customer block training, ancillary training, on-the-job training, mobility training, and various other unit-level miscellaneous training areas. The old method of managing these requirements via cards and manually generated rosters has quickly become obsolete.

One purpose of this study was to search for a training management information system that would alleviate the time-consuming tasks associated with training management. A second objective was, if no satisfactory system could be found, to design a system to meet the needs of the supply training monitors.

Extensive interviews were performed with supply training monitors and MAJCOM training managers in search of a system already in existence and gathering information for the possible development of such a system. Since no satisfactory system could be found, a supply training management system was designed and programmed in dBase III Plus. The resulting system was successfully evaluated and should provide the supply community with a usable training management tool.